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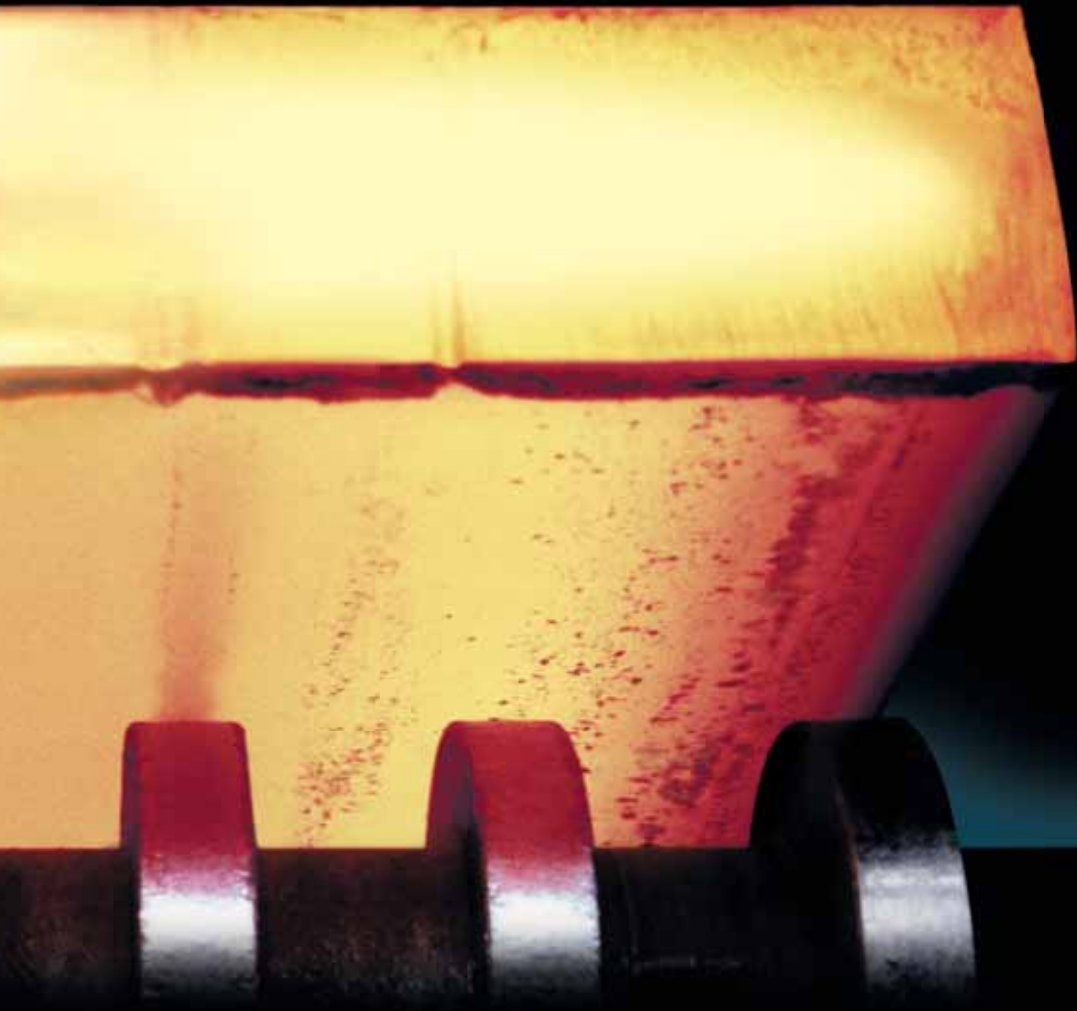
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# CONTENTS



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## News from The Editor 5

### Section 1

#### Steel Industry Index 11

An alphabetical guide of steel manufacturers, producers, suppliers of plant equipment and services with full company details

### Section 2

#### Classified Listings 53

Company listings by services and products

#### Processing

#### General Services

### Section 3

#### Country Listings 83

Company listings by country

## Letter from the Editor

This Supplement of Steel Times International aims to provide an annually updated guide to suppliers of plant, equipment and services to the steel industry. As a supplier, if your company is not included please e-mail [tammybreese@quartzltd.com](mailto:tammybreese@quartzltd.com) for a form for inclusion in the next Directory. Steel Times International is an English language journal with a global readership in over 110 countries. It contains a digest of global news, events and statistics, as well as more detailed technical articles, company and country profiles, conference reports and reg-

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**Tim Smith, Editor**

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# What would four times longer tube life do for your recuperator efficiency?



**By raising recuperator temperatures**, steel manufacturers can reduce energy consumption and increase production.

A Turkish steel company took on the challenge of finding a tube steel grade that could withstand high temperatures and still perform according to the process requirements.

In cooperation with material experts at Sandvik, the company decided to install tubes in grade Sandvik® 253 MA® into four recuperators. The changeover made it possible to run the recuperators at higher temperatures and save substantially on energy consumption.

At the same time, a production increase of 60% has been achieved. The old conventional high-temperature tubes in the recuperators had a service life of about 2 years. The tubes in Sandvik 253 MA have, so far, been running for 8 years without problems.



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CO<sub>2</sub> emissions can be reduced 44% by replacing cement clinker with BF slag



## The sustainability footprint of steelmaking by-products

Life Cycle Analysis (LCA), originally derived to assess the carbon footprint of manufactured goods, is being applied to production processes where it can be manipulated in a variety of ways each yielding a different result to claim the lowest carbon footprint for a particular process. This paper uses the example of blast furnace slag as a replacement for cement clinker and shows, depending on the method of allocation, a saving of 0.24tCO<sub>2</sub>/t of steel produced or 0.64tCO<sub>2</sub>/t of cement produced. **By J P Birat\***

BY- and co-products usually command low prices in their markets because they retain the image of a waste, which they are not. Legislation and practice are slowly changing this image and the scarcity of raw materials adds to the trend, especially when this causes prices to increase. With higher prices, greater preparation of the co-products is possible to turn them into true and sophisticated secondary raw materials.

A steel mill is a large logistical hub, with raw materials and energy as input and steel plus other materials as outputs. The terminology to designate the latter is ill-defined; the terms used include: co-products, by-products, residues, waste, emissions, pollutants, discharge, etc and are used in different contexts. This profusion of names echoes the conceptual hurdles that block the way when numbers have to be attributed to the co-products, either related to environmental footprints or to economic values, especially when both these are involved.

This paper focuses on the example of Blast Furnace (BF) slag, which is sold to the cement industry in large quantities as a substitute to clinker. The practice is a lively example of an industrial ecology synergy between two economic sectors. Both sectors, collectively, decrease their environmental footprints in

terms of energy consumption, GHG emissions and resource depletion. Many issues arise, however, when exact figures have to be worked out to allocate a footprint to each partner in the synergy. Life Cycle Analysis (LCA) seems a good candidate to do that job, but, from a practical standpoint, this method can be implemented in so many versions that the answers end up as a series of very different figures, which confuse the issue rather than clarify it.

What is argued in this paper is that these difficulties are due to the fact that the underlying problems are not yet solved and that it is naïve to ask an approach such as LCA to solve issues related to the allocation of the cost of Climate Change to commodity materials such as cement and steel. Until these issues are cleared, it is proposed either to focus mainly on the synergistic benefits of cooperation between the two sectors or to accept different estimates of the footprint of the co-products in the two sectors.

This example is a typical case in point related to what we have called the collision between the ecosphere and the anthroposphere.

### Cement & steel – a virtuous example

To illustrate this discussion and flesh it out beyond these abstract considerations, the story of cement and steel, two of the three most

important materials in the world, in terms of volume (the other is wood) and thus of their vital importance in human artefacts and in the logistical part of the economy. These two materials entertain connections at the level of their production phases, following the rationale of industrial ecology [1,2].

Cement and steel are both made from natural, primary raw materials at high temperatures in large industrial reactors – a cement kiln or a blast furnace and oxygen converter. Primary cement and primary steel are not connected during their production phase.

Cements are artificially prepared compounds of lime, silica, alumina, and sometimes magnesia, ie of oxides of highly electronegative metals, usually prepared from carbonates in a high temperature process that releases CO<sub>2</sub> during calcining.

Steels are alloys made of almost pure iron, which are produced by reducing iron ores, mostly iron oxides, at high temperature using coal (carbon) as a reducing agent: the chemical reaction produces CO<sub>2</sub>. Both materials are produced in very large quantities, more than a billion tonnes a year, and the chemistry on which their production is based requires a large amount of specific energy. This makes both 'energy-intensive' industries, and, as a conse-

\*Abstracted from a paper presented by J P Birat, ArcelorMittal, Maizières, France [jean-pierre.birat@arcelormittal.com](mailto:jean-pierre.birat@arcelormittal.com) presented at the Waste Recovery in Ironmaking and Steelmaking Processes, 13-14 December 2010 organised by the Iron & Steel Society of The Institute of Materials, Minerals and Mining (UK).

Steel mill	Cement plant	
4.00Mt crude steel/yr	1.50Mt cement/yr	
2.11t /CO <sub>2</sub> /tsteel	0.78tCO <sub>2</sub> /t clinker	0.51t CO <sub>2</sub> /t clinker due to calcining limestone
	0.86tCO <sub>2</sub> /t clinker	0.28t CO <sub>2</sub> /t clinker due to combustion of oil in the kiln
	0.91tCO <sub>2</sub> /t clinker	0.35t CO <sub>2</sub> /t clinker due to combustion of coal in the kiln
250kg BF slag/tHM	1t cement = 0.90t clinker	0.40t CO <sub>2</sub> /t clinker due to combustion of coke in the kiln
1t HM/t steel	1t cement = 0.95 t slag + 5% gypsum	
800€/t steel	60€/t cement	
20€/t slag		
Allocation methods		
method	per tonne of slag	per tonne of cement
Physical allocation 1	1.24tCO <sub>2</sub> /tBF slag	1.18tCO <sub>2</sub> /t cement
Physical allocation 2	0.54tCO <sub>2</sub> /tBF slag	0.52t CO <sub>2</sub> /t cement
Weight allocation	1.72tCO <sub>2</sub> /tBF slag	1.63tCO <sub>2</sub> /t cement
Economic allocation	0.01tCO <sub>2</sub> /tBF slag	0.01tCO <sub>2</sub> /t cement
Industrial ecology synergy		
Case 1 – 0 synergy	9.81	
Case 2 – all slag substitutes for cement	8.85	
	0.96	
	0.64t of CO <sub>2</sub> saved per tonne of cement	
	0.24t of CO <sub>2</sub> saved per tonne of steel	

**Table 1 Main features of steel, slag and cement assumptions used in various methods of allocating carbon footprint**

quence, large industrial emitters of CO<sub>2</sub> from large individual sources. In both cases, CO<sub>2</sub> originates both from the combustion of fossil fuels and from chemical reactions.

Steel production generates slags, which are compounds of lime, silica, alumina and magnesia, in large quantities (300 to 400kg/t of steel). The slag concentrates the elements of the ore that are not alloyed in the steel and which do not leave the process as gases or dust. The closeness of the composition of slags to that of cement is such that some of these slags can serve as secondary raw material for making cement. They are usually mixed with clinker at the final stage of cement production, ie beyond the high temperature kiln stage.

This creates a synergy between the cement and the steel industries, which has been organized at an industrial level. Blast furnace (BF) slag is recovered when tapped and quenched in water to produce granulated slag.

It exhibits the amorphous structure required for direct addition to cement clinker after grinding.

This is probably the most important example of an industrial ecology connection between two industrial sectors in terms of volume.

This is also a clear example of how a by-product of the steel industry avoids the status of waste and becomes a co-product.

All this has good connotations and is pointed out as virtuous in industrial ecology classes and matches the rules related to waste, particularly the waste hierarchy rule and the 3, 4 or 5-R rules (Reduce; Reuse; Recycle; Recover; Residual Management).

When one looks at the economics of the connection and at the manner in which environmental externalities, such as climate change, can be brought into the picture, the matter becomes more complex and the ambiguity between a co-product and a by-product comes to the front.

The economic picture is fairly simple. The steel mills sell their granulated slag to cement makers. There is a market for slag, which decides on the market price of that commodity.

That price is close to the cost of clinker and it incorporates a transport 'allowance' from a small distance around the cement plant, of the order of 100km.

There is a lively commercial dimension to this market and other secondary raw materials, such as fly ash from coal-fired power plants, can compete with BF slag as an additive to clinker. The price the slag can command is very much constrained by the price of cement.

One should also factor in that bulk slag can be sold as roadbed material, for which the natural material is stones from a quarry.

Granulated slag is a more sophisticated product than bulk slag; its market value is higher and commensurate with the extra cost of granulation.

## CO<sub>2</sub> issues

Primary processes each have their associated CO<sub>2</sub> emissions. It is intuitively obvious that implementing a synergy between the two activities by using BF slag to substitute clinker will decrease energy consumption and CO<sub>2</sub> emissions on a global consideration. It will also decrease total investment in the two activities, steel and cement production, and probably cut operating costs; but this kind of intuition needs to be checked and validated.

A method to describe the synergy in terms of energy and CO<sub>2</sub> is Life Cycle Analysis (LCA), which is widely accepted and one towards which the practitioner will spontaneously turn. As soon as LCA is selected as the analytical method, then a premise is accepted that issues are discussed in relation to a functional unit, in this case one tonne of BF slag. We will come back later on these key assumptions, which are often taken for granted, and seem convenient, but are not necessary and do not necessarily provide the 'best' answers to our questions.

There are several ways of implementing LCA and this plurality of options is actually related to the complexity of what is to be accomplished.

The first level of complexity is due to the fact that creating such a synergy means that various scenarios have to be compared: this is due to the fact that decision making has to be mod-

elled, not simply a mass and energy balance around engineering systems.

The second level of complexity arises due to the full introduction of economic parameters into the analysis, ie of looking for a solution to internalize the cost of CO<sub>2</sub> into the economic system. This is an even greater challenge, as the price of CO<sub>2</sub> may be as low as zero – if one deals with emissions comprised in the quotas that the major energy-intensive industries have received for free until now. But if the free quota is exceeded, further allowances have to be purchased, presently at €15/t at today's market price a figure which will reach much higher values in the future, of, say, €50/t in the near term and even higher using projections that some long-term economic models deliver, such as €400/t. These figures can play havoc with the market prices of commodities like steel and cement and may exceed profit margins by an order of magnitude.

The numerical example that will be used is given in Table 1. It is derived from two former publications, the data of which might need a small update, but this has not been done here as the objective is to make a point, not to establish definitive figures.

We present the options below offered by LCA in steps:

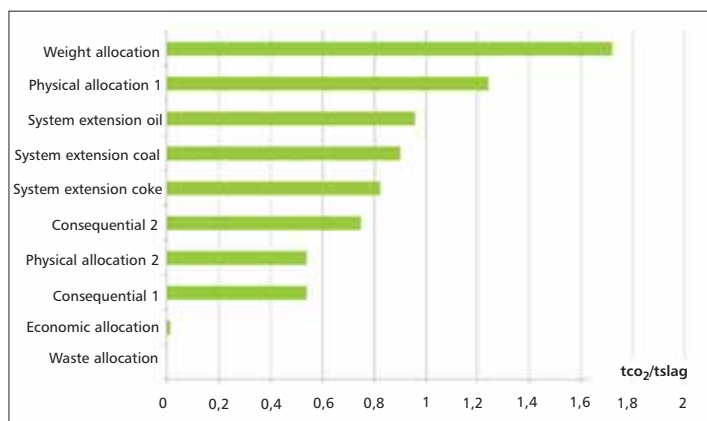
- A first set of options is called *allocation*: a value of impact, in this case of CO<sub>2</sub>, is attributed (technical term is allocated) to the slag.
- A second set of options consists in extending the scope of analysis by introducing a wider system into the discussion to bring it closer to reality, according to a method called *system extension*.
- A third set of options consists in explicitly discussing scenarios that will take place due to the use of slag in the cement industry. This is called *consequential LCA*.
- One may discuss the same issues related to a slightly different functional unit, such as a tonne of steel, or a tonne of cement rather than the tonne of slag that has been considered until now.
- Finally, the approach may get rid of LCA conventions altogether and propose something different and original, based on a more basic application of the industrial ecology concept, ie on the intuition referred to above.

## Allocation LCA

The allocation method itself offers many sub-options depending on which specific allocation method is used<sup>6</sup>:

- The first method, *weight allocation*, is related to weight (or mass) produced. ie a tonne of hot metal is produced alongside 0.25t of slag and the CO<sub>2</sub> emissions can be allocated proportionally to these respective masses. This means that the specific allocation (also called CO<sub>2</sub> factor or CO<sub>2</sub>-intensity factor tCO<sub>2</sub>/t) of hot metal and slag is the same, in this example 1.72tCO<sub>2</sub>/t of steel and slag. This is a method that gives the same weight, figuratively and physically, to both product and co-product.
- The second method, *economic allocation*, is related to economic value, usually price:





**Fig 1 Estimates of the CO<sub>2</sub> burden of BF slag according to ISO 14040 accepted methods<sup>[1]</sup>**

assuming, say, a price for steel of €800/t and €20/t for slag then the sales associated with 1 tonne of steel is €805/t (ie 1t steel + 0.25t slag). This translates into 0.0013tCO<sub>2</sub>/t slag. The contribution of slag in this case is almost negligible, which in a sense is similar to assuming that slag is a waste without any environmental burden.

- The third method, *physical allocation*, is related to a physical analysis of the co-production of slag and hot metal. There are again several ways of doing this, just like there are several ways of modelling the operation of a complex chemical reactor such as a blast furnace:

– the method followed in Reference<sup>[1]</sup> is based on a full-fledged physical chemistry and process engineering model of the blast furnace and calculates how much CO<sub>2</sub> is generated due the production of an extra marginal amount of slag. This is probably what chemical engineers would present as the methods that describe most accurately the cost to pay for producing clinker substitute in a blast furnace. The answer is 1.24tCO<sub>2</sub>/t slag.

– another method, requires less expertise in analyzing the blast furnace process and consists in allocating emissions according to the energy distribution between hot metal and slag in the blast furnace. The reason why this is called physical allocation is fairly clear. The answer then is 0.54tCO<sub>2</sub>/t slag. Discussing why the two methods do not match goes beyond the scope of this paper.

- A fourth option is to consider slag as a waste and therefore as an undesired product of a blast furnace. Practically speaking, this is not quite what happens in the real world, as the charge of the blast furnace (its burden) is adjusted in order to make the slag match the requirements of the cement industry in terms of composition. In this case, the allocation is nil, 0.00tCO<sub>2</sub>/t slag.

### System extension

System extension consists of introducing the cement industry into the picture by saying that the slag will displace cement made from conventional sources, in this case made without slag. The production of cement generates between 0.78 and 0.91tCO<sub>2</sub>/t cement, which means that the replacement of clinker by slag would avoid between 0.82 and 0.96 tCO<sub>2</sub>/t slag. This value is fully unrelated to any of the values calculated from allocation methods. It assumes on the one hand that slag will indeed replace clinker, which would be a rather strong

statement in a consequential LCA context, and that slag should be considered as a substitute for clinker with all the attributes of clinker given to slag, including CO<sub>2</sub> emissions.

### Consequential LCA

Now let us try to propose a consequential LCA approach. This is entering into prospective methodologies or foresight studies and this opens up another Pandora's box and another fractal dimension in the analysis: again, many options are possible and a path would have to be chosen between them.

The question to answer now is what happens in the real economic world when the steel sector makes a tonne of slag available on the market as a clinker substitute? Here are some reasonable options:

- The cement industry buys the product and indeed uses it as a clinker substitute by reducing its own production of clinker (consequential 1). This is similar to the system extension case discussed above. Of course, a full consequential LCA would have to take on board the upstream emissions of cement making, which has not been done in the example here; of quarries for limestone, but also of fossil fuels, electricity, etc.
- The cement industry buys the product but manages to sell more cement to the market. Thus, no replacement is taking place. The total amount of emissions related to the cement sector increases (consequential 2).
- The cement sector strikes a commercial deal with the steel sector and replaces fly ash by slag, thus turning fly ash into the waste that is usually considered to be its status and the power sector bears the full burden of its emissions unequivocally.
- etc.

These results have been combined in **Fig 1** to show how confusing the issue may appear to anyone who starts looking for a fair way out of the methodological difficulties that have been raised. An LCA practitioner will probably choose the option that best fits the standpoint taken for a particular study. It will be different if there is a mandate from the steel or the cement industry, or if the analysis represents stakeholders mainly interested in climate change, etc.

What would be a best practice that could be recommended for all of these approaches?

All the figures are related to slag on the assumption that an LCA of slag is carried out.

One may, however, discuss from the stand-

point of steel, for example a functional unit made of one tonne of crude steel: the slag allocation, whichever would be chosen, would be removed from the allocation of steel and thus the 2.11tCO<sub>2</sub>/tsteel would drop accordingly. If a physical allocation is assumed (physical allocation 2), then the value for steel would drop to 1.97 tCO<sub>2</sub>/tsteel.

This value has no relevance to an economic value. The EU Trading Directive (ETS) for CO<sub>2</sub> emissions is based on actual physical emissions and does not incorporate a deduction (credit) for slag. On the other hand, steel needs to publish life cycle inventories (LCI), which are used by product designers and other stakeholders. In this LCA context, it makes sense to take a credit for slag – excepting that in any of the previous methods this is in principle possible. The steel sector might prefer the highest value, ie the one related to the weight allocation, but, if it does, it might find it difficult to sell its slag, as it would burden the cement industry above its replacement value. This is typically a commercial issue, when the sector chooses what it pleases. On the other hand, CO<sub>2</sub> emissions are calculated because of Global Warming. The physics of emissions, real ones or avoided ones, is important, thus the physical method emissions would probably be best, but a comparison with what is avoided (the present emissions of the cement sector, assuming substitution) would probably also be of interest, in a kind of system expansion: 0.91tCO<sub>2</sub>/tcement are avoided and they are replaced by 0.54tCO<sub>2</sub>/tcement, a gain of 0.40tCO<sub>2</sub>/tcement or a 44% saving.

From the standpoint of cement, this figure is relevant, although the practice until now has been for the sector to claim that slag, fly ash and carbon 'waste' are CO<sub>2</sub>-free. Hence, this leaves room for discussions and possibly negotiations.

If one steps away from the concept of a functional unit, which narrows down the discussion to commercial and possibly parochial issues, and looks at the industrial ecology synergistic system that a steel mill (say, 4Mt/y output) and the cement kiln (1.5Mt/y) constitute, then a slightly different picture emerges without synergy. (Historically, cement making was part of an integrated steel mill's operation, which also systematically included its own power plant, at least in most places in Europe). The system emits 9.8MtCO<sub>2</sub>/y with no slag used or, with full synergy, 8.8MtCO<sub>2</sub>/y, ie this avoids emission of 0.96MtCO<sub>2</sub>/y to the atmosphere. This does not allocate the savings to any of the sectors, just shows how virtuous for the planet the industrial ecology synergy is.

If the savings are allocated to steel, then the amount of CO<sub>2</sub> avoided is 0.24tCO<sub>2</sub>/t steel and if one does the same for cement, then it amounts to 0.64tCO<sub>2</sub>/t cement. (The two numbers are not cumulative; they express the same thing in different units). Both sectors have much to gain in pursuing these synergies

Of course, this discussion is somewhat convoluted as it only focuses on subtle ways of performing an LCA. The issue for both sectors involved is somewhat more practical as the image of their material is at stake and material choices as well.

In the longer term, if Climate Policies become more demanding as will most certainly happen, then these CO<sub>2</sub> figures will be translated into monetary terms. As already pointed out, this would be a major paradigm shift in terms of the value of basic materials, particularly of cement, but also of steel. Until this is acknowl-

edged by the materials sectors, it is very difficult to carry out CO<sub>2</sub> allocation on the sole strength of Life Cycle Thinking (LCT) as LCT is very fuzzy in this area, and because the issues go far beyond the scope of a standard LCA and, therefore, the occasion of providing LCI may be a good reason for forcing the issue and looking for solutions. But LCT and LCA methodologies do not offer any light to navigate through this long-term strategic issue.

### Methodological conclusions

The discussion which has been carried out here for BF slag can in principle be extended to all by-products.

It can also be used in a wider context, for example, the comparison between materials such as metals and cement, and materials which have a double status, as materials and as energy sources, such as wood or plastics.

The concepts of closed-loop and open-loop have been used in such a context, but not without ambiguities and the approach outlined here would be more fruitful in this particular case as well.

The case of biofuels would also benefit from such an approach and possibly many other complex cases, where the direct, almost brutal application of LCA methodology, does not work satisfactorily, as it leaves too many options open which are left for the practitioners to solve as they see fit. Complexity should be addressed as such and not through avoidance behaviour.

This discussion is also shedding light on how to use LCA 'properly'<sup>[4]</sup>.

LCA was initially designed as a management tool to give environmental insight for decision making related to consumer products which are

mass-produced. Thus, it usually compares two scenarios and makes suggestions on the most preferable one. It is best used as a tool for designing new products or new solutions. However, LCA is used increasingly as a marketing tool to show the advantages of one solution against the assumed disadvantages of a competing one.

It is also used in more ambitious decision making, especially societal ones (as a basis of a carbon footprint, for example). When LCA is called upon to sort out the difficulties related to the internalisation of the CO<sub>2</sub> externalised into cement or steel prices, then, clearly, it is used beyond its scope.

LCA is the child of physics (by establishing mass – globally, per unit chemical species and per unit element, etc – and energy budgets) and of material accounting (by tracking down these physical fluxes with a very high level of detail, and, apparently at least, of accuracy).

Because it is defined by standards, it is not bound by the law of physics: practically speaking, a system expansion does not conserve energy and matter<sup>[5]</sup>. This is a difficulty that easily leads to rebound effects, if the method is used in too general a context. There are also many other reasons for rebound effects<sup>[6]</sup>.

Another distortion of the use of LCA is to focus exclusively on CO<sub>2</sub> or GHG emissions. LCA claims universality and the trade off is implication of the modelling of the real world. LCA is multicriteria. It provides a full picture of the global environmental footprint of the functional unit, not simply of the carbon footprint.

One may also wonder at the distinction between products, co-products, by-products, residues and waste, which has been introduced

in the fields of law and regulation to solve important international trade issues in an opportunistic way. Nature does not abide with these different concepts.

All outputs from an industrial process have, in the long run, the same fate of going back eventually to the environment, directly or after being used by consumers or by an industry, at some end-of-life or after one or several steps of recycling. They may go back in their chemical form, or transformed into other compounds. The anthroposphere is thus giving back these products to the ecosphere, after borrowing them for a while. ■

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- 6 to be published in SAM-5 seminar, 2011

## DIARY OF EVENTS

For details, additional events and check for updates please visit [www.steeltimesint.com/events/](http://www.steeltimesint.com/events/)

### MAY 2012

#### AISTech 2012 annual Exposition and Congress

Date: 07 - 10 May 2012  
Location: Atlanta, Georgia, USA

#### 7th China International Steel Congress

Date: 07 - 10 May 2012  
Location: Kerry Hotel, Beijing, China  
Organised by MC-CCPIT

#### 2012 SEAISI Conference & Expo

Date: 28 - 30 May 2012  
Location: Bali International Convention Centre Organised by SEAISI

#### Metallurgy Litmash

Date: 28 - 31 May 2012  
Location: Moscow Expocentr Krasnaya Presnya Fairgrounds Organised by Messe Dusseldorf

### JUNE 12

#### Scanmet IV

Date: 10 - 13 June 2012  
Location: Luleå, Sweden

#### 27th Steel Success Strategies

Date: 18 - 20 June 2012  
Location: New York Organised by American Metal Market and World Steel Dynamics  
[www.worldsteeldynamics.com](http://www.worldsteeldynamics.com)

#### International Metal & Metallurgy Exhibition

Date: 19 - 21 June 2012  
Location: Guangzhou, China

#### 18th International Iron Ore Symposium

Date: 25 - 27 June 2012  
Location: Amsterdam Organised by Metal Bulletin

#### Expo Steel - 23rd Brazilian steel conference

Date: 26 - 28 June 2012  
Location: Sao Paulo Organised by Brazilian Steel Institute

### AUGUST 2012

#### The 9th China (Beijing) International Metallurgy Industry Expo 2012

Date: 22 - 24 August 2012

Location: China National Convention Center, Beijing, China Organised by Beijing Hiven Exhibition Co., Ltd

### SEPTEMBER 2012

#### Steel Tech Seminar 2012

Date: 03 - 04 September 2012  
Location: Kolkata India Organised by Steel Tech & Steel Times International  
[www.steeltechexpo.com](http://www.steeltechexpo.com)

#### 10th China International Coking Technology and Coke Market Congress

Date: 05 - 07 September 2012  
Location: Beijing, China Organised by MC-CCPIT

#### Korean International Steel & Non-Ferrous Metals Industries Expo 2012 (KISON)

Date: 19 - 22 September 2012  
Location: Kintex Expo Centre, Goyang, S Korea Organised by The Fairs Co Ltd

#### 10th European Electric Steelmaking Conference (EEC 2012)

Date: 25 - 28 September 2012  
Location: Graz, Austria Organised by the Austrian Society for Metallurgy & Materials

### OCTOBER 2012

#### ICSTI 2012

#### 6th International Congress on the Science and Technology of Ironmaking

Date: 14 - 18 October 2012  
Location: Rio De Janero - Royal Tulip Hotel Organised by ABM (Brazilian Iron & Steel Soc)

### NOVEMBER 2012

#### Stahl 2012

Date: 08 - 09 November 2012  
Location: Düsseldorf Organised by VDEh and WVS

### DECEMBER 2012

#### 30th JSI conference of the French Steel Association

Date: 18 - 19 December 2012  
Location: Paris Organised by French Steel Association (FFA)  
Former ATS Paris Conference returns to Paris in December  
<http://www.ats-ffa.org/jsi30/index.htm>

# STEEL TIMES INTERNATIONAL



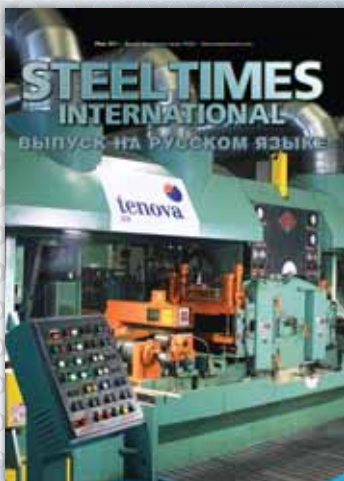
## English Issue

Published six times per year in addition to the annual Buyers' Guide & Directory. Mailed to our international readership and distributed at major global conferences and events including: AISTech, METEC and CRU events



## Chinese Issue

Published twice a year, distributed by MC-CCPIT throughout China at events and by mailing



## Russian Issue

Published twice a year, mailed to our readership throughout Russia and distributed at major events including Metallurgy Litmash and Metal Expo



## Spanish Issue

Published annually, distributed at major events throughout Latin America and mailed to our Spanish language readership

Combine tradition and know-how.  
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# STEEL INDUSTRY INDEX

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**Profile:** *Advanced NDT Limited offer a wide range of Non-Destructive Testing (NDT) for manual and on-line use - suppliers of Optimum NDT Solutions at cost effective prices.*

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**Profile:** *AGELLIS GROUP AS ia a hightech company providing measurement systems and solutions for continuous casting steel levels, slag detection and furnace levels. Difficult measurement problems solved!*

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**A 2340 Moedling Austria**  
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**Profile:** *Aichelin Group is the leading company of plants and systems for the thermal and thermochemical treatment of steel parts. We are your reliable partner all over the world*

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**Profile:** AIR SYSTEMS is a leading air pollution control company undertaking erection, testing and commissioning of EPSs and bag filters for greenfield projects, erection services for hybrid ESPs and conversion of ESPs to bag filters, repair, retrofit and refurbishment of electrostatic precipitators

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**Profile:** AirSep PSA Oxygen Systems produce 12-70,000 SCF/hr of 90-95% oxygen from compressed air at 9-60psig without supplemental boosting. The equipment offers a superior alternative to delivered supplies.

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**Profile:** Manufacturing: Ladle Well Filler Sand, Nozzle Filling, Tundish Liner Boards and Powders, Liquid Glass, Insulation Powder, Hot Slab Marking Powder, Slag Arrestor for Converter

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**Profile:** American Sensors produce advanced, non-contact infrared and laser sensors that detect hot metal presence and measure distance and temperature. Our sensors detect accurately and endure in the harshest conditions

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**W:** www.andritz.com/me-andritz-maerz-gmbh-germany

**Profile:** ANDRITZ Maerz GmbH, Germany is a specialist for industrial furnace plants and a leading supplier of engineering, know-how and process technology to the steel industry. ANDRITZ Maerz delivers furnace systems for reheating and heat treatment, as well as melting and refining furnaces

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**Profile:** ARCK Sensor is a French company specialized in the latest electronic and optical technologies for severe environments. For OHBC: sway control, coil detection before handling, anti-collision. For steel workshop: restriction of certain areas for safety reasons. For sheet lines: pinhole detection, hole and crack on edge detection - Worldwide references: ARCELORMITTAL FRANCE, BAOSTEEL CHINA, DONGBUSTEEL

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**Profile:** Arinox, part of the Arvedi Group, produces and markets stainless steel thin and ultrathin rolled strip. The product is supplied with different finished characteristics including BA finish and bright annealed suitable for normal drawing processes. The Arinox product range includes grades in the 200/300/400 series as well as some special grades for particular end uses.

## ASKO BV

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**Profile:** Founded in 1933, ASKO produces a wide range (cutting knives & wear plates) of specialty wear-resistant tooling for the metal producing, metal processing and metal recycling industries. ASKO products are today at work in thousands of metal producing and metal working companies around the world and its expertise has been continually developed. ASKO has a worldwide sales and support network and has facilities in USA, Mexico and The Netherlands

## ASKO INC

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**Profile:** ASKO is a supplier of shear knives, side-trimmer knives, liners, wear parts, slitter tooling, circular saws, and reconditioning services for the metal producing and metal processing industries.

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**Profile:** Infrared Thermometer, Pyrometer

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**Profile:** *State-of-the-art technologies in direct reduction and electric steelmaking. Unique conveying systems for hot DRI and for other outstanding technologies in iron and steelmaking*

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**Profile:** *AIC is a global systems integrator dedicated to the steel industry. Since 1975, AIC has been designing, manufacturing and commissioning electrical and automation systems, specializing in long products, including bar, wire rod, sections and rail rolling mills. AIC provides power control, automation, safety and HMI systems including basic and detailed engineering, AC and DC drives, PLC and SCADA for complete level 0,1 and 2 automation and electrical turnkey plants. Main applications include CCM, reheating furnaces handling and combustion*

*control, mill control including speed, cascade loop and tension control, shears, rod lines and finishing areas*

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**MetalBulletin**  
Events

12

# Forthcoming Events 2012



## 8th Indian Iron & Steel Conference

2-3 May 2012 • The Eros Hilton, New Delhi • [www.metalbulletin.com/events/india](http://www.metalbulletin.com/events/india)

## Risk Management Training Course Singapore

5-7 June 2012 • The Hilton, Singapore • [www.metalbulletin.com/events/iotasia](http://www.metalbulletin.com/events/iotasia)

## 18th International Iron Ore Symposium

25-27 June 2012 • The Hilton Amsterdam • [www.metalbulletin.com/events/iio12](http://www.metalbulletin.com/events/iio12)

## 7th Asian Stainless Steel Conference

25-27 June 2012 • Marina Mandarin, Singapore • [www.metalbulletin.com/events/7ass](http://www.metalbulletin.com/events/7ass)

## 10th Russian Steel Conference

26-27 June 2012 • Marriott, Moscow • [www.metalbulletin.com/events/russia](http://www.metalbulletin.com/events/russia)

## 5th South African Ferro-alloys Conference

5-7 September 2012 • The Hilton, Johannesburg • [www.metalbulletin.com/events/safa](http://www.metalbulletin.com/events/safa)

## 11th International Stainless and Special Steels Summit

12-14 September 2012 • Sheraton, Stockholm • [www.metalbulletin.com/events/iss](http://www.metalbulletin.com/events/iss)

## Steel Scrap Conference

11-13 September 2012 • Movenpick, Istanbul • [www.metalbulletin.com/events/scrap](http://www.metalbulletin.com/events/scrap)

## 7th Steel Tube & Pipe Conference

27-28 September 2012 • The Hilton, Dusseldorf • [www.metalbulletin.com/events/stp](http://www.metalbulletin.com/events/stp)

## 28th International Ferro-alloys Conference

11-13 November 2012 • InterContinental, Berlin • [www.metalbulletin.com/events/fa](http://www.metalbulletin.com/events/fa)

For more information and updates on all our events please visit  
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**Profile:** *Since its foundation in 1854, CONDAT has been recognized as the specialist in lubricants. Using its depth of technical knowledge, CONDAT develops high performance lubricants and added value, adapted to every industrial application (foundry, forging, metal working, wire drawing, maintenance, heat treatment.....). CONDAT*

*recommends to its customers the best lubrication solution, in terms of performance, economical and environmental constraints*

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**E:** disa.industries@disagroup.com  
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**DMA EUROPA LTD**  
**2nd Floor, Snuff Mill Warehouse, Park Lane**  
**Bewdley Worcestershire DY12 2EL UK**  
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**E:** info@dmaeuropa.com  
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**DONYAYE FLEZ CO**  
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**IR 1513834311 Iran**  
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**E:** hossein.adyani@gmail.com  
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**DOWNS CRANE & HOIST CO INC**  
**8827 S Juniper Street**  
**Los Angeles CA 90002 USA**  
**T:** +1 313 589 6061  
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**E:** sales@downscrane.com  
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**DR BROCKHAUS MESSTECHNIK**  
**GMBH & CO KG**  
**Gustav-Adolf-Strasse 4**  
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**T:** +49 2351 3644 0  
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**DRENNAN (SHANGHAI) COMPANY LTD**  
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**Shanghai CN 200052 China**  
**T:** +86 21 5258 8855  
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**DSF REFRACTORIES & MINERALS LTD**  
**Friden Newhaven Buxton**  
**Derbyshire SK17 ODX UK**  
**T:** +44 (0) 1629 636 271  
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**DSS GLOBAL TRADING**  
**Hospitalua Street 4a**  
**U 01601 Ukraine**  
**T:** +380 4428 1619 6  
**F:** +380 4428 1019 5  
**E:** info@dss.com.ua  
**W:** www.dss.com.ua  
**Profile:** *Our Company is a leader in production of stainless tool, high-speed (including powder made steel), bearing and alloy structural steel products.*

**DURABLE MECCO**  
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**Franklin Park Illinois 60131 USA**  
**T:** +1 630 766 6420  
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**DURAG GROUP**  
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**T:** +49 4055 4218 0  
**F:** +49 4058 4154  
**E:** info@durag.de  
**W:** www.durag.de  
**Profile:** *Market leaders for solutions in the fields of combustion technology, environmental monitoring and emission data management*

**DURALOY TECHNOLOGIES INC**  
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**Cheshire SK4 1HT UK**  
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**DUSTEX CORPORATION**  
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**Suite 195 Kennesaw Georgia 30144 USA**  
**T:** +1 770 429 5575  
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**DUSTOLEX LTD**  
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**E:** sales@dustolex.co.uk  
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**DYNAMIC SYSTEMS INC**  
**PO Box 1234 Poestenkill**  
**New York 12140 USA**  
**T:** +1 518 283 5350  
**F:** +1 518 283 3160  
**E:** info@gleeble.com  
**W:** www.gleeble.com  
**Profile:** *Dynamic Systems manufactures the Gleeble® line of thermal-mechanical physical simulators. Samples are heated/cooled and mechanically worked while performance parameters are measured, providing a cost effective simulation of high temperature processes and applications*

**DYSON PRECISION CERAMICS**  
**Dewsbury Works, Low Road, Earlsheaton**  
**Dewsbury West Yorkshire WF12 8BU UK**  
**T:** +44 (0) 1924 468 201  
**F:** +44 (0) 1924 459 429  
**E:** sales@dyson-precision.com  
**W:** www.dyson-precision.com

**DYSON TT**  
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**South Yorkshire S17 3BL UK**  
**T:** +44 (0) 114 235 6060  
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**E:** enq@dysontt.com  
**W:** www.dysontt.com  
**Profile:** *Leading manufacturers of ultra-high density Zirconia refractory ceramics, specialising in the production and development of Zirconia metering nozzles for billet casting (including nozzles for exchangeable metering systems)*

**E**  
**E BRAUDE (LONDON) LTD**  
**Liberta House Sandhurst**  
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**T:** +44 (0) 1252 876 123  
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**E:** sales@braude.co.uk  
**W:** www.braude.co.uk  
**Profile:** *We are specialist manufacturers of non corrodable heating and cooling equipment (typically fluoropolymer) for corrosive liquids. Applications include acid pickling and pretreatment tanks. We also provide a detailed design service.*

**EBNER INDUSTRIEOFENBAU GMBH**  
**Ebner-Platz 1**  
**A 4060 Leonding Austria**  
**T:** +43 7326 868  
**F:** +43 7326 8681 000  
**E:** sales@ebner.cc  
**W:** www.ebner.cc  
**Profile:** *Ebner-Industriefenbau, Linz/Austria, designs and manufactures industrial furnaces for semi-finished products for the steel, aluminium and copper alloys industries. Exceptional HICON® technology, reproducible quality and uniform mechanical properties are achieved by means of precision temperature control, visit us online at www.ebner.cc*

**EDGEN MURRAY**  
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**Baton Rouge Louisiana 70809 USA**  
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**EDWARD SYMMONS**  
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**T:** +44 (0) 20 7955 8454  
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**E:** paul.proctor@edwardsymmons.com  
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**EDWARDS VACUUM**  
**Crawley Business Quarter, Manor Royal**  
**Crawley West Sussex RH10 9LW UK**  
**T:** +44 (0) 1293 528 844  
**F:** +44 (0) 1293 534 149  
**E:** info@edwardsvacuum.com  
**W:** www.edwardsvacuum.com  
**Profile:** *Edward offers a comprehensive range of vacuum pumps and systems for all industrial uses.*



## EFCO LTD

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## EGON EVERTZ GMBH &amp; CO KG

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ELECTRONIC DEVELOPMENT LABS,  
INC

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Danville Virginia 24540 USA**

**T:** +1 800 342 5335

**F:** +1 434 799 0847

**E:** sales@edl-inc.com

**W:** www.edl-inc.com

**Profile:** Since 1943, EDL's combination of quality products and services, make them the premier supplier for all your temperature related needs. EDL provides the most reliable precision temperature measuring sensors, equipment, accessories, calibrators and an complete calibration service

ELECTROSTAL HEAVY ENGINEERING  
WORKS JSC

**19 Krasnaya Electrostal City  
Moscow 144005 Russia**

**T:** +7 495 702 9757

**F:** +7 496 577 7342

**E:** eztm@eztm.ru

**W:** www.eztm.ru

**Profile:** The Electrostal Heavy Engineering Works (<EZTM> JSC) manufactures and supplies tube rolling, metallurgical, blast furnace, cement, crushing and mining equipment. Our competitive advantage consists in high industrial base which includes metallurgical and welding engineering, mechanical-assembly and tool making, research complex and experimental base

## ELETTROMECCANICA VIOTTO SRL

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ELG EISENLEGIERUNGEN  
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## ELSTER GMBH

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**W:** www.kromschroeder.com

**Profile:** Elster GmbH, Kromschroeder is one of the leading manufacturers of cutting-edge products and system solutions for safeguarding, measuring and controlling gases.

## ELSTER METERING LTD

**130 Camford Way, Sundon Park Luton  
Bedfordshire LU3 3AN UK**

**T:** +44 (0) 1582 846 400

**E:** water.metering@gb.elster.com

**W:** www.kentmeters.co.uk

## ELWOOD CORP

**Fluid Power Group, 195 West Ryan,  
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## EMERSON CONTROL TECHNIQUES

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Shropshire TF3 3BA UK**

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**W:** www.controltechniques.com/uk

EMERSON PROCESS MANAGEMENT  
LTD

**Horsfield Way Bredbury Industrial Estate,  
Bredbury Stockport SK6 2SU UK**

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## EMG AUTOMATION GMBH

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**T:** +49 2762 6120

**F:** +49 2762 6122 37

**E:** info@emg-automation.com

**W:** www.emg-automation.com

**Profile:** EMG is a leading provider of electro-hydraulic control solutions and quality assurance systems in the automation of continuous production processes for the metal, paper and plastics industries

## EMPCO (CANADA) LTD

**910 Hopkins Street Whitby  
Ontario L1N 6A9 Canada**

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## ENDRESS+HAUSER INSTRUMENTS

INTERNATIONAL AG

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CH-4153 Reinach Switzerland**

**T:** +41 61 715 81 00

**F:** +41 61 715 25 00

**E:** info@ii.endress.com

**W:** www.endress.com

**Profile:** Endress + Hauser is a global suppliers of sensors, measuring instruments, systems and services for pressure flow level and temperature measurement as well as liquid analysis, data acquisition, system components and automation solutions

ENDRESS+HAUSER MESSTECHNIK  
GMBH+CO KG

**Colmarer Strasse 6  
D-79576 Weil am Rhein Germany**

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## ENGIN PASLANMAZ

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ENGINEERED PRESSURE SYSTEMS  
INT NV

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**E:** epsi@epsi.be

**W:** www.epsi-highpressure.com

**Profile:** Design and manufacturing of high pressure equipment, mainly cold or hot isotatic presses

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## ERICHSEN GMBH &amp; CO KG

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**T:** +1 814 835 6000  
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**ESCO TRANSMISSIONS SA**  
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**BE 1831 Diegem Belgium**  
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**F-75015 Paris France**  
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**ESM GROUP INC**  
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**Oregon 97062 USA**  
**T:** +1 716 446 8914  
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**W:** www.esm-group.com

**ESPIC CONSULTING PVT LTD**  
**Sapphire Twins, 3 Road Floor Plot No 17,**  
**PU-3, Scheme No. 54, A.B. Road**  
**Indore Madhya Pradesh IND-452010 India**  
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**EUROPICKLING NV**  
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**E:** info.eurotherm.uk@invensys.com  
**W:** www.eurotherm.com; www.eurotherm-  
 heattreatment.com

**EVADX LTD**  
**Unit 9, Tirlwyd Enterprise Park, St Asaph**  
**Avenue Rhyll Clwyd LL18 5JZ UK**  
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**W:** www.evadx.com

**EVERLUBE PRODUCTS**  
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**Georgia 30269 USA**  
**T:** +1 770 261 4800  
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**EZDK STEEL EUROPE GMBH**  
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**D-47051 Duisburg Germany**  
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## F

**FABRIS INC**  
**A Solutions Provider 1216 South Service**  
**Road Stoney Creek Ontario L8E 5C4**  
**Canada**  
**T:** +1 905 643 4111  
**F:** +1 905 643 3355  
**E:** info@fabris.com  
**W:** www.fabris.com

**Profile:** Guiding systems for rod and bar mills, including roller entry guides, FABRICAM® alignment camera, Fabris SCS™ Spiral Cooling System, rest bars, twistlers, slitters, delivery guides and various spare components.

**FALCON STEEL LTD**  
**Wunarlwydd Works Wunarlwydd**  
**Swansea SA1 1XH UK**  
**T:** +44 (0) 7920 747 935  
**F:** +44 (0) 1633 279 993  
**E:** aslawska@falconsteel.co.uk  
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**FATA HUNTER DIVISION OF FATA SPA**  
**Strada Statale n. 24, Km 12**  
**I-10044 Pianezza (TO) Italy**  
**T:** +39 0119 6681  
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**E:** sales@fatahunter.com  
**W:** www.fatahunter.com

**FEDNAV LIMITED**  
**1000 de la Gauchetière, West Suite 3500**  
**Montreal Quebec H3B 4W5 Canada**  
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**FERROSTAAL AG MOSKAU**  
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**FERROTRON TECHNOLOGIES GMBH**  
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**T:** +49 2841 9878 0  
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**F:** +47 8779 99  
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**FESTO AG & CO KG**  
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## FIBRETECH

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## FIB-SERVICES SA

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**E:** mail@fib-services.be  
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## FILTRATION SERVICES LTD

**Waters Green House, Waters Green Macclesfield Cheshire SK11 6LF UK**

**T:** +44 (0) 1625 616 109  
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**E:** info@filtrationservices.co.uk  
**W:** www.filtrationservices.co.uk

## FINARVEDI SPA

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**T:** +39 0372 5352 1  
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## FISCHER INSTRUMENTATION (GB) LTD

**Gordleton Industrial Park, Hannah Way, Pennington Lymington Hampshire SO41 8JD UK**

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## FIVES BRONX

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**T:** +1 330 244 1960  
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**E:** michael.pollard@fivesgroup.com  
**W:** www.btwcorp.com

**Profile:** Bronx offers (under the Bronx, BTW and Abbey brand names): In-line mill finishing equipment to straighten, test or finish pipes, bars and tubes, notably seamless tubes, Electrical Resistance Welding (ERW) tube and pipe mills, used to produce tubular welded products

## FIVES BRONX INC

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## FIVES BRONX LTD

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**E:** scott.miller@fivesgroup.com

**W:** www.fivesgroup.com

**Profile:** Fivesbronx is the leading provider of steel and non-ferrous mill finishing equipment including: Straighteners, Hydrostatic pipe testers, Rotary cut-offs and end facers, Pipe Collapse testers, Coupling screw-on machines and Ancillary finishing equipment

## FLSMIDTH WUPPERTAL GMBH

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## FMS FORCE MEASURING SYSTEM AG

**Aspstrasse 6 CH-8154 Oberglatt Switzerland**

**T:** +41 4485 2808 0  
**F:** +41 4485 0600 6  
**E:** info@fms-technology.com  
**W:** www.fms-technology.com

**Profile:** FMS is a leading supplier for strip tension measurement/control and web guiding equipment. It's the company of choice for manufacturers and users of web processing equipment around the globe

## FLSMIDTH KOCH GMBH

**Karl-Koch-Strasse 1 D-66787 Wadgassen Germany**

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**fives north american**

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## FONTAINE ENGINEERING UND MASCHINEN GMBH

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**E:** info@foen-gmbh.de  
**W:** www.foen-gmbh.de  
**Profile:** FOEN is worldwide the leading brand for wiping equipment is continuous hot-dip galvanising lines. Since 1969, The FOEN @ wiping equipment has been continuously improved to meet the growing expectations of the industry. In the meantime, nearly 140 lines have been equipped worldwide

## FORTIS

**Coolsingel 93 NL-3031 PN Rotterdam The Netherlands**

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## FOSBEL INC

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**E:** fosbel.inc@fosbel.com  
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**Profile:** Fosbel provides comprehensive coke battery maintenance: ceramic welding, gunning, endflue and throughwall rebuild services, condition monitoring and inspections. These result in optimized production, battery life extension and reduced emissions.

## FOSECO STEEL

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## FOUNDRAx ENGINEERING PRODUCTS LTD

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## G

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E: machking@galcorp.com  
W: www.galaxiecorp.com  
**Profile:** Galaxie Corporation is a worldwide buyer and seller specialising in used metalworking machinery and steel processing equipment

## GE ENERGY (formerly Dresser Roots Middle East)

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Dubai United Arab Emirates

T: +971 4899 1743  
F: +971 4883 0897  
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**Profile:** GE and its Roots blowers, compressors and controls products serve the steel sector by developing and deploying technology that helps make efficient use of natural resources. With nearly 95,000 global employees, GE Energy is one of the world's leading suppliers of power generation and energy delivery technologies

GE ENERGY AIR FILTRATION  
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Kansas City Missouri 64133 USA

T: +1 816 356 8400  
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E: filtration@ge.com  
W: www.ge-energy.com/filtration  
**Profile:** GE Energy Air Filtration delivers application expertise for industrial dust collection through a comprehensive product line including bags & cages, membranes, pleated filters, acoustic & impulse cleaning systems, parts and accessories

## GE JENBACHER GAS ENGINES HEADQUARTERS

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**Profile:** KELK designs and manufactures state-of-the-art electronic measurement equipment used mainly in steel and aluminium rolling mills around the world, and also in paper mills and mining applications.

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**Profile:** An ISO 9001:2000 Certified and ISO/IEC 17025:1999 Accredited company supplying non-contact x-ray, isotope thickness & coating weight gauge systems for the metals industry.

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**F:** +41 33 334 8088  
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**Profile:** GRIP Engineering AG is a leading company in engineering and building selective roll spray systems for flat strip rolling mills. Located in Switzerland we supply our service and products worldwide.

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**HENKEL SURFACE TECHNOLOGIES**  
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**HANDLINGSYSTEMS GMBH**  
**(ANDROMAT)**  
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**Profile:** Hillcrest specialise in design, supply, fabrication and erection of structural steel throughout the UK. Please view our website for more information and to see a range of projects we have completed

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**Profile:** HORIBA Scientific is a major manufacturer of analytical instrumentation used in the steel industry including Carbon/Sulphur analysers,

Oxygen/Nitrogen/Hydrogen analysers, ICP-OES, Optical Emission Spectrometers, particle Size and Elemental Depth Profilers (Glow Discharge)

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**Profile:** Horsburgh and Scott, founded in 1886, manufactures new gear components and gearboxes, and provides teardown analysis, engineering upgrades, repairs and offers increased service factors that can expand equipment lifecycle.

HOT BRIQUETTED IRON  
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KONECRANES UK INDUSTRIAL  
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**Kilbride Glasgow G74 5LR UK**

**T:** +44 (0) 1355 220591  
**F:** +44 (0) 1355 263654  
**E:** gordon.adie@konecranes.com  
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**Profile:** *Koncranes UK Industrial Crane Division, is part of the UK trading arm of the international group, Koncranes Plc. We have a distinguished history stretching back to the start of the 20th century. Today, this tradition has enabled us to forge a worldwide reputation for excellence in the design and manufacture of cranes and hoists. From our UK headquarters in Scotland we can supply standard or Specialised cranes and hoists and deliver them to our clients anywhere in the world.*

## KONRAD CORPORATION

**1421 Hanley Road Hudson**  
**Wisconsin 54016 USA**

**T:** +1 715 386 4200  
**F:** +1 715 386 4219  
**E:** sales@konradcorp.com  
**W:** www.konradcorp.com

## KÖPPERN GMBH &amp; CO KG

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**F:** +49 2324 207 207  
**E:** n.klinker@koepfern.com  
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## KOSO KENT INTROL LTD

**Armytage Road, Industrial Estate Brighouse**  
**West Yorkshire HD6 1QF UK**

**T:** +44 (0) 1484 710311  
**F:** +44 (0) 1484 407407  
**E:** control.valve@kentintrol.com  
**W:** www.kentintrol.com

## KRESS CORPORATION

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**Illinois 61517 USA**

**T:** +1 309 446 3395  
**F:** +1 309 446 9625  
**E:** nkress@kresscarrier.com  
**W:** www.kresscarrier.com

**Profile:** *Kress Corporation is the world's leading manufacturer of speciality transport*

*vehicles for steel, nonferrous and ferroalloy industries, specializing in slag handling, liquid steel and iron transport, coil and slab carriers*

## KROMSCHRODER (UK) LTD

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**Worcester Road Kidderminster**  
**Worcestershire DY11 7RA UK**

**T:** +44 (0) 1562 747756  
**F:** +44 (0) 1562 744129  
**E:** info@kromschroeder.com  
**W:** www.kromschroeder.co.uk

## KÜETTNER GMBH &amp; CO. KG

**Alfredstr. 28**  
**D-45128 Essen Germany**

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**E:** info@kuettner.com  
**W:** www.kuettner.de

KUHLMAN SYSTEM KÜHLTECHNIK  
GMBH

**An der Ziegelei 11**  
**D-45721 Haltern am See Germany**

**T:** +49 2364 1053 90  
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**E:** info@k-s-k.de  
**W:** www.k-s-k.de

## KÜNEMUND GMBH

**Max-Planck-Str. 6**  
**D-77694 Kehl Germany**

**T:** +49 7851 8702 0  
**F:** +49 7851 7338 2  
**E:** info@kuenemund.com  
**W:** www.kuenemund.com

**Profile:** *Bearings and Seals for high temperature applications in the steel and rolling mills*

KÜNKEL-WAGNER  
PROZESSTECHNOLGIE GMBH

**Hannoversche Straße 59**  
**D-31061 Alfeld Germany**

**T:** +49 5181 780  
**F:** +49 5181 7830 6+A457  
**E:** md@kuenkel-wagner.de  
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## L

## L &amp; L SPECIAL FURNACE CO INC

**20 Kent Road**  
**Aston Pennsylvania 19014 USA**

**T:** +1 610 459 9216  
**F:** +1 610 459 3689  
**E:** sales@hotfurnace.com  
**W:** www.hotfurnace.com

**Profile:** *L&L Special Furnace specializes in Precision Furnaces, Kilns and ovens. Bench, Floor, Dual Chamber, Tube, Shuttle and Elevator Models available.*

## LAMIFLEX AB

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## LAND INSTRUMENTS INTERNATIONAL

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## LANG MACHINERY CO INC

**PO Box 167, One Lewis Avenue, Groveton**  
**Coraopolis Pennsylvania 15108 USA**

**T:** +1 412 262 0999  
**F:** +1 412 262 3406  
**E:** langmchy@aol.com  
**W:** www.langmachinery.com

**Profile:** *Lang Machinery Co., Inc, purchases, retrofits and resells used rolling mill mechanical and electrical components. Our plant consists of 200,000 square feet of buildings served by 50 ton cranes.*

## LANKHORST MOULDINGS BV

**PO Box 203**  
**NL-8600 AE Sneek The Netherlands**

**T:** +31 5154 8769 0  
**F:** +31 5154 8762 2  
**E:** info@lankhorst-mouldings.nl  
**W:** www.lankhorst-mouldings.nl

**Profile:** *KLP® coil storage systems always offer the same important properties: improved safety, optimal flexibility and extreme long lifetime. The product range includes amongst others: Rollblocks, Rollcradles, Storageblocks, RollStopSystem and RollCradleSystem.*

LANKHORST RECYCLED PRODUCTS  
UK LTD

**7/8 Victoria Building, Lwein Street**  
**Middlewich Cheshire CW10 9AT UK**

**T:** +44 (0) 800 043 0880  
**F:** +31 5154 8749 5  
**E:** sales@lankhorst.co.uk  
**W:** www.lankhorst-nouldings.com

**Profile:** *KLP® coil storage systems always offer the same important properties: improved, optimal flexibility and extreme long lifetime. The product range includes amongst others: Rollblocks, Rollcradles, Storageblocks, RollStopSystem and RollCradleSystem.*

## LANNER GROUP LTD

**The Oaks Clews Road Redditch**  
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 edition please contact  
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**E:** info@lap-laser.com  
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**Profile:** LAP has been supplying laser-based systems for high-precision measurement of geometric parameters of products in industrial production such as position, width, thickness, length, diameter, and flatness for over 25 years. The LAP systems are characterised by very high measuring accuracy under the toughest conditions. Hundreds of them prove their efficiency every day in steelworks and rolling mills.

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**Profile:** Laser & inspection systems for true dimensional measurement

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**West Bengal IND-700001 India**  
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**F:** +91 3322 3572 60  
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**M J MAILLIS UK LTD**  
**Monarch House, Chrystal Way, Langley**  
**Bridge Eastwood Nottingham**  
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**T:** +44 (0) 1773 539000  
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**Profile:** An ISO Certified organisation that offers a complete range of integrated design and engineering consultancy services for projects in metallurgical, mining, chemical, power, other heavy industries and allied sectors as well as infrastructure.

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**WERKSEUGBAU GMBH**  
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**D-44225 Dortmund Germany**  
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**LTD**  
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**MAGNESITAS NAVARRAS SA**  
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**E-31630 Zubiri Spain**  
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**MAHINDRA STEEL SERVICE CENTRE**  
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**Profile:** Design and production of gear couplings, gear spindles, universal shafts, engineering services including computer aided design, finite element analysis and field services

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**Profile:** Major provides innovative engineering

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**MAN DIESEL & TURBO SE**  
**Stadtbachstrasse 1**  
**D-86153 Augsburg Germany**  
**T:** +49 8213 220  
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**E:** turbomachinery@mandieselturbo.com  
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**Profile:** MAN Diesel & Turbo SE is the world's leading provider of large-bore diesel engines and turbomachinery. It designs two-stroke and four-stroke engines, gas and steam turbines and compressors.

**MANITEX LIFTKING ULC**  
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**E:** info@mayerton.com  
**W:** www.mayerton.com  
**Profile:** Refractory solutions to optimise refractory performing extending vessel life, availability and reducing costs

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**Steel Research Centre, 1280 Main Street**  
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**MECON LTD**  
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**IND-834002 India**  
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**MEGATRON LTD**  
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Tottenham London N17 0DA UK  
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Nr Wolverhampton WV10 8QL UK  
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**MESTEEL.COM**  
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57040 UAE  
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**Profile:** Linking steel seller and buyers in the  
Middle East

**METAL PROCESS CONTROL AB**  
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Gesellschaft für Energiewirtschaft und Kybernetik mbH  
D-59590 Geseke / Germany  
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**W:** www.monometer.co.uk  
**Profile:** Monometer design and manufacture metal melting and heat treatment furnaces. We also welcome consultancy for installations and processes which are suitable for monometer equipment

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**MOTHERWELL BRIDGE INDUSTRIAL LTD**

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**MTS SENSOR TECHNOLOGY GMBH & CO KG**

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**T:** +49 2351 9587 0  
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**E:** info@mtssensor.de  
**W:** www.mtssensor.com  
**Profile:** For more than 35 years, MTS Sensor Technologie has been a specialized supplier in the field of magnetostrictive position sensors. They offer non-contact, wear free operation even in the hardest environments. The high signal quality enables the best displacement and velocity control performance

**MÜLLER WEINGARTEN AG Schussenstrasse 11 D-88250 Weingarten Germany**

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**E:** info@ndt-es.co.uk  
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**Profile:** *The largest European manufacturer of Ultrasonic Calibration and Test Blocks including specials. Supplier of all types of non destructive testing equipment and consumables, complete with repair, calibration and servicing*

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**Profile:** Marketing, trading and distribution of raw materials to foundries, steelworks and other metal industries

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**Profile:** *The company specialises in the design and manufacture of digital pyrometers, portable or mains, thermal analysers with download facilities to computer, printer and repeat indicators. SmartDip and SmartPour, unique items.*

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**Profile:** Oschatz develops, produces and installs waste heat boiler systems for oxygen steel plants (BOF), sinter and coking plants. Each plant concept is individually based on customer and process-specific requirements

## OSTERWALDER AG

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**Profile:** Osterwalder is a leading supplier of production-ready solutions in powder compacting technology. Latest developments: servo-electric and hydraulically driven presses for single and multi-level applications, cross pressing, split-die technology, tool alignment via quick change tooling.

## OUR METALS LTD

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**Profile:** Outokumpu manufactures and supplies world-class stainless steel products such as hot and cold rolled sheets, plates and strips, quarto plates and long products



## OUTOTEC

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**Profile:** Outotec develops and provides technology solutions for the sustainable use of Earth's natural resources. As the global leader in minerals and metals processing technology, Outotec has developed many breakthrough technologies over the last several decades

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## P

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**Profile:** Supplier of analytical instrumentation and software for X-ray diffraction (XRD) and X-ray fluorescence spectrometry (XRF). The materials characterisation equipment is used for scientific R&D and for industrial process control

## PANALYTICAL LTD

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**Profile:** Pearson Panke, for 50 years specialists in equipment for Cold and Hot Forging, Rotary Swaging, Spinning, and for Sheet Metal especially Precision Levelling and Ductility Testing, and Casting Moulding Lines

## PEIPOINT SCIENTIFIC LTD (SHANGHAI OFFICE)

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**E:** sales@pinard.com.au

**W:** www.Pinard.com.au

**Profile:** Suppliers to sheet, coil, pipe & tube industries. KLP Lankhorst, Dhatec, Asko, Kostalon, slitter knives, slitter tools, mandrel sleeves, tube rolls, sills

## PLAKOMA GMBH

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## POLYPIPES LTD

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**Profile:** Polysius AG with more than 2,000 employees all around the world, is one of the leading engineering companies equipping the cement and minerals industries

## POLYSIUS LTD

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**Profile:** Polytec manufactures optical measurement systems for the analysis of vibration, length, velocity and surface topography. Polytec's Velocimeters provide precise length and speed data for process and quality control of metallurgical and rolling mill product

## POSCO ENGINEERING &amp; CONSTRUCTION CO LTD

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**F:** +41 61 716 20 10

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**Profile:** PRESSTRADE is the leading company for used forging machines and equipment worldwide. Furthermore PRESSTRADE also offers consulting, dismantling & reassembly, technical service, spare parts procurement, transport & logistic services

## PRESSTRADE HANDELSGESELLSCHAFT MBH

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**Profile:** PSI has more than 40 years of experience in IT solutions for metals production management. AI Systems, 4Production and PSI BT have now joined their forces within the PSI Metals Group.

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**Profile:** *Bell Annealing Specialists: Bell-Type Furnaces • 100% Hydrogen Atmosphere • Optimisation Software - Manufacturer of capital equipment for high-quality batch annealing of hot and cold reduced strip and wire metal coils*

**RAINHAM STEEL CO LTD**  
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**RAIPUR ALLOYS & STEEL LTD**  
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**Profile:** *Refractory raw material and refractories producer and supplier.*

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**Profile:** *More than 60 years of innovation and a constant overview of the high quality raw materials and products has made Refratechnik into one of the leading companies in refractories worldwide*

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**Profile: Schaeffler Group Industrial offers first-class bearing solutions and services to increase the productivity and efficiency of equipment in steel plants. These include the design and selection of suitable bearings, fitting, lubrication, rolling bearing condition monitoring and reconditioning.**

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**Profile: Schenck Process is one of the world market leaders in measuring and process technology. More than 3,000 employees are developing innovative solutions for technical weighing, feeding and vibrating technology.**

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**Profile: SERT-METAL develops top-quality solutions to improve metal flow control on existing or new continuous casters. Including AMLC with electric stopper valve, mould level sensors, advanced controller and breakout prevention**

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 MODIFICATION CO LTD  
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 LTD  
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**SILVENT UK LTD**  
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**E:** info@silvent.co.uk  
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**Profile:** *Oxide scales have always been a problem in the steel manufacturing industry. Silvent InTech has the solution to the problem. The Silvent blowing technique is used in steel mills all over the world.*

**SIRCO CONTROLS LTD**  
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**SISTEM TEKNIK A.S.**  
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**E:** info@sistemteknik.com  
**W:** www.sistemteknik.com  
**Profile:** *Sistem Teknik Industrial Furnaces A.S. offers Industrial Furnaces used heat treatment of Ferrous Industry. The Furnaces are designed and produced to meet all requirements of the customers by utilizing latest heating and controlling technologies.*

**SKAMOL A/S**  
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**Profile:** SMS Siemag is a global leader in metallurgical plant and rolling mill technology and part of the SMS Group, in international supplier of machinery and plant for the metals industry

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**Profile:** SPX Precision Components FENN Division is a global supplier of Metalforming Machinery. Established over 100 years it has a solid reputation and customer base, built on decades of engineering and machine building experience.

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**Profile:** Stemcor is the world's largest independent steel trader. Our services span every step in the steel supply chain including mining, steel and raw materials trading, price hedging, shipping, distribution, stockholding and finance

**STG HOLDINGS**  
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**E:** interstop@stopinc.ch  
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**Profile:** Stopinc AG is a world leading supplier of the INTERSTOP Flow Control Technology for the control of molten metal in the steel and non-ferrous industry specialized in slide gate systems

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**Profile:** Sudamin Rohstoff is an international service and trading company with special expertise on metal containing waste and by-products from steel mills and foundries

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**E:** bolting@superbolt.com  
**W:** www.superbolt.com  
**Profile:** Superbolt manufactures patented

*multi-jackbolt tensioners designed to eliminate unsafe and time consuming bolting methods. Only hand tools are required for installation and removal of any size tensioner. Our Productions are economical, safer for workers, reduce installation and removal times and are accurate and reusable.*

**SUPERBOLT UK LTD**  
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**E:** nixonindustrial@btconnect.com  
**W:** www.superbolt.co.uk

**SUPERIOR FILTRATION LTD**  
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**SYSTECH ILLINOIS (SYSTECH**  
**INSTRUMENTS LTD)**  
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**F:** +44 (0) 1844 217220  
**E:** sales.uk@systechillinois.com  
**W:** www.systechillinois.com  
**Profile:** Systech, a leading manufacturer of gass analysis equipment have over 25 years of experience in gas and moisture measurement. Providing efficient solutions to gas analysis in many industry sectors worldwide.

**SYTCO AG**  
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**TATA STEEL PROJECTS**  
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**Profile:** Tata Steel Projects provides a full range of services from consultancy, multi-disciplinary design and engineering expertise through to manufacture, installation and onsite project management, from one of the UK's largest engineering facilities. We aim to deliver cost-effective solutions, through value engineering and the use of new technology

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**Profile:** Supplier of used surplus mechanical, electrical and material handling mill equipment. Services include asset assessment, dismantling & demolition, engineering & design, start-up & commissioning & global logistics

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Cold Rolling Mills and Ancillary Equipment 475 Main Street Yalesville Connecticut 06492 USA**

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Roll Grinders for Rolling Mills Via Leonardo da Vinci 20 I-21053 Castellanza (VA) Italy**

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**E:** info@tetronics.com  
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**Profile:** Tetronics Ltd is a global leader in the

supply of Direct Current (DC) Plasma Arc systems for a wide range of applications including Waste Recovery, Hazardous Waste Treatment, Metal Recovery and Production Processes.

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**Profile:** The Thermo Scientific range of non-contact thickness and coating weight gauges for hot and cold-rolling mills provide real-time measurement of material production; optimising processes, improving quality and minimising waste

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**Profile:** THERMOCAST manufactures steel and alloy castings, resistant to heat, wear and corrosion. The foundry products are mainly addressed to: steel plants, cement industries, heat treatment shops, petrochemical, incinerators, glass industries

**THYSSENKRUPP NIROSTA GMBH**  
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**D-47807 Krefeld Germany**  
**T:** +49 2151 8301  
**F:** +49 2151 83 2022  
**E:** marketing.nirosta@thyssenkrupp.com  
**W:** www.nirosta.de  
**Profile:** We produce • cold-rolled strip and sheet • hot-rolled strip and sheet • precision strip in the steel grades • NIROSTA® stainless • THERMAX® heat-resistant

**TIMCAL LTD**  
**Strada Industriale**  
**CH-6743 Bodio Switzerland**  
**T:** +41 9187 3201 0  
**F:** +41 9187 3201 9  
**E:** j.costerg@ch.timcal.com  
**W:** www.timcal.com

## TIMKEN

**TIMKEN**  
**2 Rue Timken**  
**F-68000 Colmar France**  
**F:** +33 3 89 21 46 95  
**E:** alexandre.adam@timken.com  
**W:** www.timken.com/en-us/solutions/primarymetals

**TINFOS JERNVERK A/S**  
**Vollsvn 13 H, PO Box 103**  
**N-1325 Lysaker Norway**  
**T:** +47 6710 3400  
**F:** +47 6710 3410  
**E:** hp.hoegh.omdal@tinfos.no  
**W:** www.tinfos.no

**TITAN UMREIFUNGSTECHNIK**  
**Berliner Straße 51-55**  
**D-58332 Schwelm Germany**  
**T:** +49 2336 8082 90  
**F:** +49 2336 8082 08  
**E:** dmoltzan@titan-schwelm.de  
**W:** www.titan-schwelm.de

**TMEIC**  
**2060 Cook Drive**  
**Roanoke Virginia 24153 USA**  
**T:** +1 540 283 2100  
**E:** metals@tmeic.com  
**W:** www.tmeic.com  
**Profile:** TMEIC unites the strength and expertise of Toshiba and Mitsubishi Electric, providing advanced automation and drive

systems for the metals industry, out of offices worldwide

**TMK PIPE METALLURGICAL COMPANY**  
**5 Building, 1 Podosensky Pereulok**  
**Moscow 105062 Russia**  
**T:** +7 495 775 7601  
**F:** +7 495 775 7600  
**E:** ponomarevd@tmk-group.com  
**W:** www.tmk-group.com

**TML TECHNIK GMBH**  
**Daimlerstrasse 14-16**  
**D-40789 Monheim am Rhein Germany**  
**T:** +49 2173 9575 0  
**F:** +49 2173 9575 40  
**E:** info@tml-technik.com  
**W:** www.tml-technik.com

**TMT - TAPPING MEASURING TECHNOLOGY GMBH**  
**Hagener Strasse 103**  
**D-57072 Siegen Germany**  
**T:** +49 2714 010  
**F:** +49 2714 0121 0  
**E:** contact@tmt.com  
**W:** www.tmt.com  
**Profile:** TMT - Tapping Measuring Technology - is a joint company of Dango & Dienenthal, Germany and Paul Wurth, Luxembourg. TMT is a leading supplier in the field of tapping technology as well as measuring technology at blast furnaces and for the application in the non-ferrous metallurgy - TMT is a system provider for efficient heat recovery

**TMT - TAPPING MEASURING TECHNOLOGY SARL**  
**32 Rue d'Alsace**  
**L-1122 Luxembourg**  
**T:** +352 2619 200  
**F:** +352 2619 2027 79  
**E:** contact@tmt.com  
**W:** www.tmt.com  
**Profile:** See TMT - Tapping Measuring Technology GmbH

**TOGNI S/A MATERIAIS REFRATARIOS**  
**Av Antonio Togni 2439 Pocos de Caldas**  
**MG 37704-356 Brazil**  
**T:** +55 352 101 2222  
**F:** +55 353 714 2420  
**E:** togni@togni.com.br  
**W:** www.togni.com.br

**TREXA CA**  
**Urb Industrial La Quizanda, Galpón #67**  
**Valencia Carabobo VE 2001 Venezuela**  
**T:** +58 241 833 3057  
**F:** +58 241 833 3057  
**E:** mrucz@trexa.com.ve  
**W:** www.trexa.com.ve

**TRINECKE ZELEZARNY**  
**Trinec 1 stare mesto Prumyslova 1000**  
**Trinecke Zelezarny CZ 739 70**  
**Czech Republic**  
**T:** +420 5585 3240 0  
**E:** public.relations@trz.cz  
**W:** www.trz.cz

**TRL KROSAKI REFRACTORIES LIMITED**  
**A/T P.O Belpahar Dist-Jharsuguda**  
**Orissa IND-768 218 India**  
**T:** +91 6645 251097  
**F:** +1 6645 250243  
**E:** dbehera@trlkrosaki.com  
**W:** www.trlkrosaki.com  
**Profile:** Services: Refractories Engineering & Management Services including Total Refractories Solution & Total Refractories Management

**TRUEFORGE GLOBAL MACHINERY CORP**  
**100 Merrick Road, Suite 208E**  
**Rockville Centre New York 11570 USA**  
**T:** +1 516 825 7040  
**F:** +1 516 825 7115  
**E:** sales@trueforge.com  
**W:** www.trueforge.com

**TRUNINGER AG**  
**Industriestrasse 9**  
**CH-4513 Langendorf Switzerland**  
**T:** +41 3261 7370 0  
**F:** +41 3261 7379 8  
**E:** sales@truninger.com  
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**TSCHAN GMBH**  
**Zweibrucker Strasse 104**  
**D-66538 Neunkirchen Germany**  
**T:** +49 6821 8835 3  
**F:** +49 6821 8662 31  
**E:** j.guthier@tschan.de  
**W:** www.tschan.de

**TSTD INC**  
**331 Larsdotter Lane Geneva**  
**Illinois 60134 USA**  
**T:** +1 630 232 7380  
**F:** +1 630 232 7295  
**E:** tstd@wans.net  
**Profile:** North American Representative for Eisnewerk Sulzau-Werfen (ESW), The Austrian roll foundry providing cast work and limited backup rolls for the steel strip and plate rolling mills in the USA and Canada. ESW also offers certain roll qualities for cold mill and other applications. ESW is possibly the oldest roll foundry with a history of exporting to customers worldwide. They do extensive research and development of new grades and modified grades to address specific application needs Roll grades offered include, but not limited to, HSS, standard and enhanced chrome steel and irons and standard and enhanced grades of ICDP

**TURBOSAN TURBOMACHINERY INDUSTRY**  
**Gumussuyd Cad Hasane Yolu No:1 Maltepe-Topkapi Istanbul TR-34020 Turkey**  
**T:** +90 212 567 9550  
**F:** +90 212 612 4741  
**E:** export@turbosan.com  
**W:** www.turbosan.com

TWIN CITY EUROFAN LTD  
**Central Boulevard Blythe Valley Park**  
**Solihull B90 8AG UK**  
**T:** +44 (0) 1564 711 147 / **Mob:** +44 (0) 7974 187 416  
**E:** pdeasy@tcef.co.uk  
**W:** www.tcef.eu

TYCO ELECTRONICS UK LTD  
**Freebournes Road Witham**  
**Essex CM8 3AH UK**  
**T:** +44 (0) 1376 509509  
**F:** +44 (0) 1376 509511  
**E:** electricals@tycoelectronics.com  
**W:** www.crompton-instruments.com

TYCO FLOW CONTROL HK LTD  
**Shanghai Rep Office, Room 1107-08, World Trade Tower No. 1, 500 Guangdong Road Shanghai China**  
**T:** +86 21 6362 0070  
**F:** +86 21 6279 3345  
**E:** rochen@tyco-valves.com  
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## U

UEC IT  
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**Pennsylvania 15219 USA**  
**T:** +1 412 433 5790  
**E:** employeeservices@uss.com  
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UHDE GMBH  
**Coke Plant Technologies Division, Friedrich-Uhde-Strasse 15**  
**D-44141 Dortmund Germany**  
**T:** +49 2315 470  
**F:** +49 2354 7303 2  
**E:** martin.reinke@thyssenkrupp.com  
**W:** www.uhde.biz/kontakt/index.en.html

UHT UVAN HAGFORS TEKNOLOGI  
**Djursholmsvagen 30**  
**SE-18352 Taby Sweden**  
**T:** +46 8 6220 880  
**F:** +46 8 5449 5668  
**E:** per.vesterberg@uht.se  
**W:** www.uht.se  
**Profile:** The engineering company UHT in Sweden, supply leading turn-key solutions based on proven metallurgical and production knowhow within Converter refining, CLU® and AOD, as well for Metal Granulation, GRANSHOT®

UK CARBON & GRAPHITE CO LTD  
**UKCG House, 5 Strutt Street Belper**  
**Derbyshire DE56 1UN UK**  
**T:** +44 (0) 1773 881130  
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**E:** enquiries@uk-cg.com  
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UK CARES  
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**Sevenoaks Kent TN13 1XR UK**  
**T:** +44 (0) 1732 450000  
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**E:** general@ukcares.com  
**W:** www.ukcares.com

ULUSLARASI MEDYA YAYINCILIK VE TICARET LTD  
**Cihannuma Mah Cikmazil Baysan Apt No 32/11 Besikstas Istanbul**  
**TR-80700 Turkey**  
**T:** +90 212 237 2464  
**F:** +90 212 332 7792 9  
**E:** rupert@gbpreports.com

UNGERER GMBH + CO. KG  
**Kandelstrasse 20**  
**D-75179 Pforzheim Germany**  
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**E:** info@ungerer.de  
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**Buckinghamshire MK8 8LF UK**  
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UNIFRAX LIMITED  
**Mill Lane Rainford St. Helens**  
**Merseyside WA11 8LP UK**  
**T:** +44 (0) 1744 887 625  
**F:** +44 (0) 1744 886 443  
**E:** allan.davies@unifrax.co.uk  
**W:** www.unifrax.com  
**Profile:** Unifrax Ltd, has for many years been committed to delivering high temperature thermal insulation solutions providing significant cost effective energy benefits. Each stage of the steel making process, profit from the use of the products from the board Fiberfrax® range - including bulk fibres, blankets, papers, felts, boards, modules, mastics and pre-formed shapes. Unifrax have also developed the established Insulfrax® and Isofrax® bio-soluble product groups. The scope of solutions available from Unifrax has recently been enhanced with the addition of Excellfrax® high performance insulation products

UNILUX INC  
**59 N. 5th Street Saddle Brook**  
**New Jersey 07663 USA**  
**T:** +1 201 712 1266  
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**E:** unilux@unilux.com  
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USF SPENCER HALSTEAD  
**Bridge Works, Wakefield Road Ossett**  
**West Yorkshire WF5 9AW UK**  
**T:** +44 (0) 1924 276 303  
**F:** +44 (0) 1924 277 829  
**W:** www.surfacepreparation.com

UVIS LTD.  
**52 Gogol Strasse Dnepropetrovsk**  
**U 49005 Ukraine**  
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**8 Iancu de Hunedoara Boulevard,**  
**Sector 1 Bucharest**  
**RO 011742 Romania**  
**T:** +40 2131 3533 1  
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## V

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**E:** info.service@vmtubes.de  
**W:** www.vmtubes.com

VAN HEYGHEN STAAL  
**IZ Durmakker, Westbeeksluis 4**  
**BE-9940 Evergem Belgium**  
**T:** +32 92 53 24 00  
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**E:** administration@vanheyghenstaal.be  
**W:** www.vanheyghenstaal.be

VAN LEEUWEN PIPE AND TUBE GROUP  
**PO Box 50, Lindtsedijk 20**  
**NL-3330 AB Zwijndrecht**  
**The Netherlands**  
**T:** +31 7862 5252 5  
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**E:** vlptg@vanleeuwen.com  
**W:** www.vanleeuwen.com

VELCO GMBH  
**Haberstrasse 40**  
**D-42551 Velbert Germany**  
**T:** +49 2051 2087 0  
**F:** +49 2051 2087 20  
**E:** info@velco.de  
**W:** www.velco.de  
**Profile:** For almost 40 years VELCO supplies refractory gunning machines and tailor-made gunning robots for the hotrepair of EAF's, ladles, RH-Snorkels, converters etc. as well as pneumatic injection systems for bulk materials, e.g. carbon, lime, FeSi, etc. for metallurgical purposes

VENTILATORENFABRIK OELDE GMBH  
**Robert-Schuman-Ring 21**  
**D-59302 Oelde Germany**  
**T:** +49 2522 750  
**F:** +49 2522 7525 0  
**E:** info@venti-oelde.de  
**W:** www.venti-oelde.de  
**Profile:** Ventilatorenfabrik Oelde offers a wide range of products for all the collecting, handling and filtering of air, vapours, gases and dust. The program includes fans, dust collection plants and recycling systems

**VERECO SRL**  
**Via Galileo Galilei 19 Malo**  
**I-36034 Vicenza Italy**  
**T: +39 0445 6022 60**  
**F: +39 0445 6026 50**  
**E: info@vereco.it**  
**W: www.vereco.it**

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**Pennsylvania 15205 USA**  
**T: +1 412 655 3491**  
**F: +1 412 655 3493**  
**E: sales@verichek.net**  
**W: www.verichek.net**

**VERITEC SONOMATIC LTD**  
**Ashton House, The Village Birchwood**  
**Business Park Warrington WA3 6FZ UK**  
**T: +44 (0) 1925 414 000**  
**F: +44 (0) 1925 655 595**  
**E: peter.conlin@veritecltd.co.uk**  
**W: www.vsonomatic.com**

**VESUVIUS UK LTD**  
**Barlborough Offices, 2 Midland Way, Central**  
**Park Barlborough Links**  
**Derbyshire S43 4XA UK**  
**T: +44 (0) 1246 571700**  
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**W: www.vesuvius.com**

**VEZZANI SPA**  
**Via M.Tito 3**  
**I-42020 Montecavolo (RE) Italy**  
**T: +39 0522 8808 44**  
**F: +39 0522 8808 20**  
**E: vezzani@vezzani.it**  
**W: www.vezzani.it**

**VOITH TURBO GMBH & CO KG**  
**Universal Joint Shafts and Hirth Couplings,**  
**Alexanderstrasse 2**  
**D-89522 Heidenheim Germany**  
**T: +49 7321 3782 83**  
**F: +49 7321 3771 06**  
**E: ujshafts@voith.com**  
**W: www.voithturbo.com/universal-joint-shafts**

**VOITH TURBO INC**  
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**York Pennsylvania 17406 USA**  
**T: +1 717 767 3200**  
**F: +1 717 767 3210**  
**E: vti-information@voith.com**  
**W: www.usa.voithturbo.com**  
**Profile: Voith Turbo specializes in the design, manufacture and servicing of high performance driveline equipment for the metal processing industries, including shafting systems, overload protection, and temporary and permanent torque diagnostics.**

**VOITH TURBO LTD**  
**6 Beddington Farm Road Croydon**  
**Surrey CR0 4XB UK**  
**T: +44 (0) 20 8667 0333**  
**F: +44 (0) 20 8667 0403**  
**E: turbo.uk@voith.com**  
**W: www.voithturbo.com**

**VTI - VALTRONICS INC**  
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**Valley Springs California 95252 USA**  
**T: +1 209 754 0707**  
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**VÚHŽ AS**  
**Dobrá 240**  
**CZ 739 51 Czech Republic**  
**T: +420 5586 0135 6**  
**F: +420 5586 0118 9**  
**E: dept2@vuhz.cz**  
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**VULCAN ENGINEERING CO**  
**1 Vulcan Drive Helena Industrial Park**  
**Helena Alabama 35080 USA**  
**T: +1 205 663 0732**  
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**E: sales@vulcangroup.com**  
**W: www.vulcangroup.com**  
**Profile: Heavy-duty handling equipment in mills is essential in producing all types of basic metals. Vulcan provides design and supply of material handling equipment for ingots, slabs, billets, bars and coils.**

**VWN STEEL SOLUTIONS GMBH**  
**Olsbergerstr 2**  
**CH-4310 Rheinfelden Aargau Switzerland**  
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**F: +41 6183 1831 4**  
**E: thomas.narholt@vwn-steel-solutions.com**  
**W: www.vwn-steel-solutions.com**

## W

**WALKER MAGNETICS GROUP**  
**17 Rockdale Street**  
**Worcester Massachussetts 1606 USA**  
**T: +1 5088 533232**  
**F: +1 5088 568649**  
**E: info@walkermagnet.com**  
**W: www.walkermagnet.com**

**WALTER & BAI AG**  
**Industriestrasse 4**  
**CH-8224 Lohningen Switzerland**  
**T: +41 5268 7252 5**  
**F: +41 5268 7252 0**  
**E: info@walterbai.com**  
**W: www.walterbai.com**

**WALZEN IRLE GMBH**  
**Huettenweg 5**  
**D-57250 Netphen Germany**  
**T: +49 2737 5040**  
**F: +49 2737 5041 11**  
**E: michael.leuning@walzenirle.com**  
**W: www.walzenirle.com**

**WAVECURRENT AUTOMOTIVES LTD**  
**177 Sidco Industrial Estate Ambattur**  
**IND-600098 India**  
**T: +91 4426 2536 39**  
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**W: www.wavecurrent.com**

**WEBER SHANDWICK**  
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**Manchester M15 4PY UK**  
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**F: +44 (0) 161 228 3076**  
**E: pbowers@webershandwick.com**  
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**WEBER SHANDWICK TECHNOLOGY**  
**Fox Court 14, Gray's Inn Road**  
**London WC1X 8WS UK**  
**T: +44 (0) 20 7067 0523**  
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**W: www.webershandwick.com**

**WEDGE GROUP GALVANIZING LTD**  
**Stafford Street Willenhall**  
**West Midlands WV13 1RZ UK**  
**T: +44 (0) 1902 630 311**  
**F: +44 (0) 1902 366 353**  
**E: info@wedge-galv.co.uk**  
**W: www.wedge-galv.co.uk**  
**Profile: Wedge Group Galvanizing has 14 plants across the UK. We can process anything up to 29 metres long. Galvanizing offers economic steel protection that is tough, durable and long lasting**

**WEERULIN FEUERFESTE PRODUKTE**  
**GMBH & CO KG**  
**Frohnhauser Weg 298**  
**D-45472 Muelheim an der Ruhr Germany**  
**T: +49 2084 9538 20**  
**F: +49 2084 9538 39**  
**E: richard.fechner@weerulin.de**  
**W: www.weerulin.de**

**WELDING ALLOYS GROUP**  
**The Way Fowlmere Nr. Royston**  
**Herts SG8 7QS UK**  
**T: +44 (0) 1763 207 500**  
**F: +44 (0) 1763 207 501**  
**E: info.uk@welding-alloys.com**  
**W: www.welding-alloys.com**  
**Profile: Manufacturer of welding consumables for hardfacing, joining and cladding applications, portable & stationary automated welding equipment for surfacing applications. Integrated services to extend the service life of critical industrial components.**

**WELLMAN THERMAL TECHNOLOGIES LTD**  
**Newfield Way Oldbury**  
**West Midlands B69 3ET UK**  
**T: +44 (0) 121 543 0000**  
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**E: sales@wellman-thermal.com**  
**W: www.wellman-thermal.com**

**WEST INSTRUMENTS LTD**  
**The Hyde Business Park Brighton**  
**East Sussex BN2 4JU UK**  
**T: +44 (0) 1273 606271**  
**F: +44 (0) 1273 609990**  
**E: melissa.hopson@westinstruments.com**  
**W: www.westinstruments.com**

WOKO MAGNET UND ANLAGENBAU  
GMBH

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**F:** +49 2035 8692 4

**E:** schmitt@woko.de

**W:** www.woko.de

WOODINGS INDUSTRIAL  
CORPORATION

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Pennsylvania 16046 USA**

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**F:** +1 724 625 9065

**E:** acolucci@woodings.com

**W:** www.woodings.com

WORLD STEEL ASSOCIATION  
(worldsteel)

**Rue Colonel Bourg 120  
BE 1140 Brussels Belgium**

**T:** +32 2702 8900

**F:** +32 2702 8899

**E:** steel@worldsteel.org

**W:** www.worldsteel.org

**Profile:** worldsteel represents approximately 170 steel producers (including 17 of the world's 20 largest steel companies), national and regional steel industry associations, and steel research institutes. worldsteel members represent around 85% of world steel production

WS WÄRMETECHNIK GMBH  
Dornierstrasse 14

**D-71272 Renningen Germany**

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**F:** +49 7159 2738

**E:** ws@flox.com

**W:** www.flox.com

## X

XSTRATA PLC

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CH-6301 Zug Switzerland**

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**F:** +41 4172 6608 9

**E:** info@xstrata.com

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## Y

YEUN CHYANG INDUSTRIAL CO LTD

**No 270, Sec 4 Jungshan Road  
Shijou Shiang Chang-Hwa TAI 524 Taiwan**

**T:** +886 4 8899 666

**F:** +886 4 8899 770

**E:** alex@mail.yeunchyang.com.tw

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YIEH CORP

**No 6 E-Da Road Yanchao Township  
Kaoshiung County TAI 82445 Taiwan**

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## Z

ZAPORIZHSTAL JSC

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U 69008 Ukraine**

**T:** +380 612 182 135

**F:** +380 612 131 858

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**W:** www.zaporizhstal.com

ZDAS AS

**Strojirenska 6 Zdar nad Sazavou  
CZ 59171 Czech Republic**

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**E:** zdas@zdas.cz

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ZIMMERMANN & JANSEN GMBH

**Bahnstrasse 52, Postfach 545  
D-52355 Dueren Germany**

**T:** +49 2421 6910

**F:** +49 2421 6912 00

**E:** f-j.irnich@zjttechnologies.de

ZIRCAR REFRACTORY COMPOSITES  
INC

**PO Box 489**

**Florida New York 10921 USA**

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**F:** +1 845 651 1515

**E:** sales@zrci.com

**W:** www.zrci.com

ZUMBACH ELECTRONIC AG

**PO Box**

**CH-2552 Orpund Switzerland**

**T:** +41 0323 5604 00

**F:** +41 0323 5604 30

**E:** sales@zumbach.ch

**W:** www.zumbach.com

**Profile:** ZUMBACH is a Swiss Company, founded in 1957. Typical systems are non-contact laser gauges used in hot rolling mills for wire steel rod, profiles and pipe, as well as all cold processes, like peeling, grinding, straightening, polishing, etc.

ZWICK GMBH & CO KG

**August-Nagel-Strasse 11  
D-89079 Ulm Germany**

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**F:** +49 7305 1020 0

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**W:** www.zwick.com

ZWICK TESTING MACHINES LIMITED

**Southern Avenue Leominster  
Herefordshire HR6 0QH UK**

**T:** +44 (0) 1568 615201

**F:** +44 (0) 1568 612626

**E:** alan.thomas@zwick.co.uk

**W:** www.zwick.co.uk

**Profile:** Leading suppliers of materials and component testing machines

To book your stand or check availability contact our sales team:

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**Ken Clark** [kenc Clark@quartzltd.com](mailto:kenc Clark@quartzltd.com)

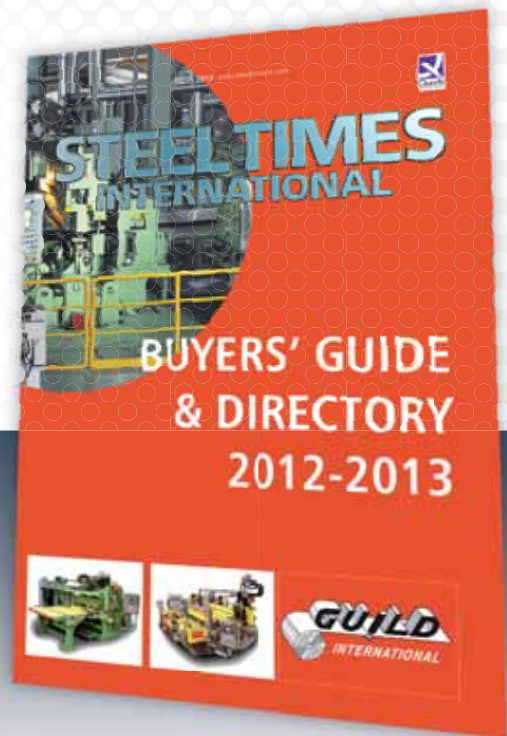
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# CLASSIFIED LISTINGS

## SECTION 2

### PROCESSING

CASTING (NON CONTINUOUS) .....	53	REHEATED FURNACES .....	56
CONTINUOUS CASTING .....	53	ROLLING MILLS .....	58
FORGING .....	54	ROLLING PERIPHERALS/FINISHING .....	60
HEAT TREATMENT FURNACES .....	55	STEEL MAKING/REFINING .....	62
IRONMAKING .....	55	STRIP PROCESSING .....	64
RAW MATERIALS .....	56	TUBEMAKING .....	66
RAW MATERIALS PREPARATION .....	56	USED EQUIPMENT .....	66

#### CASTING (NON CONTINUOUS)

##### C10 - Casting Manipulators

Henschel Industrietechnik  
Handlingsystems GmbH  
(ANDROMAT)

Pearson Panke Limited  
Vulcan Engineering Co.

##### C20 - Die Spray Equipment

Canamar Technologies Inc  
Constarc Engineering Limited

Inteco Special Melting Technologies  
GmbH

Interstop Flow Control Technology  
Polypipes Ltd

##### C40 - Ingot Moulds

Drennan (Shanghai) Company Ltd  
Inteco Special Melting Technologies  
GmbH

Rio Tinto Minerals  
Polypipes Ltd

##### C50 - Moulding Lines

Heinrich Wagner Sinto  
Machinenfabrik GmbH

Pearson Panke Limited

##### C60 - Pig Casting Machines

Paul Wurth SA

UHT Uvan Hagfors Teknolgi

Woodings Industrial Corporation

##### C70 - Pressure Pouring Equipment

#### CONTINUOUS CASTING

##### C100 - Bar & Rod Machines

Arcelor Mittal

Casey Equipment Corp

M+M Greaves (Machinery)

Polypipes Ltd

STS S.R.L.

##### C110 - Billet Machines

Arcelor Mittal

Association For Iron & Steel

Technology (AIST)

BSE Badische Stahl-Engineering  
GmbH

Casey Equipment Corp

Concast AG

Danieli & C. Officine Meccaniche  
Spa

Inteco Special Melting Technologies  
GmbH

Interstop Flow Control Technology

JP Steel Plantech Co

LASE GmbH Industrielle

Lasertechnik

M+M Greaves (Machinery)

Polypipes Ltd

Presstrade AG

Reed Machinery

Revas Technologies SpA

RHI AG

Siemens VAI Metals GmbH & Co

Siemens VAI Metals Technologies  
Ltd

Sohar Steel L.L.C

STS S.R.L.

Tata Steel Projects

##### C120 - Bloom Machines

Arcelor Mittal

Concast AG

Danieli & C. Officine Meccaniche  
Spa

Inteco Special Melting Technologies  
GmbH

Interstop Flow Control Technology

JP Steel Plantech Co

LASE GmbH Industrielle

Lasertechnik

Revas Technologies SpA

RHI AG

Siemens VAI Metals GmbH & Co

Siemens VAI Metals Technologies  
Ltd

STS S.R.L.

Tata Steel Projects

##### C130 - Cooling Systems

Danieli & C. Officine Meccaniche

Spa

LASE GmbH Industrielle

Lasertechnik

Lechler GmbH

Lechler Ltd

Saar-Metallwerke GmbH

Sohar Steel L.L.C

STS S.R.L.

Tata Steel Projects

##### C140 - Curved Mould Machines

Concast AG

Danieli & C. Officine Meccaniche  
Spa

Plakoma GmbH

Revas Technologies SpA

STS S.R.L.

Tata Steel Projects

##### C150 - Flame Cutting

Beda Oxygentechnik GmbH

Concast AG

Framag Industrieanlagenbau GmbH

Hypertherm Europe BV

LASE GmbH Industrielle

Lasertechnik

Revas Technologies SpA

##### C160 -

##### Fluxes/Lubrication

Ajoy Chemical Industries

Borax

Rio Tinto Minerals

##### C170 - Horizontal

##### Machines

Prosaw Ltd

##### C180 - Industrial Gas

##### Suppliers/Combustion

##### Technologies

Air Products Europe

AirSep Corp - Commerical Product

Division

Elster GmbH

##### Fives North American Combustion Inc

Fives North American Combustion

UK Ltd

WS Wärmeprozessstechnik GmbH

##### C190 - Ladles

ABB Crane Systems

Cone Drive Textron

Danieli & C. Officine Meccaniche

Spa

Interstop Flow Control Technology

RHI AG

STS S.R.L.

Tata Steel Projects

Technical Weighing Services Inc

##### C200 - Marking

##### Equipment

Concast AG

Durable Mecco

Hypertherm Europe BV

IML Labels & Systems Ltd  
Magnemag A/S

Pannier Corp

##### C210 - Metal Flow Control

Angellis Group AB

Danieli & C. Officine Meccaniche

Spa

Interstop Flow Control Technology

Joneja Bright Steels Pvt Ltd

Precimeter Control AB

##### Refratechnik Steel GmbH

RHI AG

Sentech Precimeter Inc

Sert Metal

Shenyang Rustproof Packaging

Material Co., Ltd

VÚHŽ a.s.

##### C220 - Moulds

Concast AG

Danieli & C. Officine Meccaniche

Spa

Drennan (Shanghai) Company Ltd

Electronic Development Labs, Inc

Revas Technologies SpA

Rio Tinto Minerals

Saar-Metallwerke GmbH

STS S.R.L.

Tata Steel Projects

Technical Weighing Services Inc

##### C230 - Moulding Lines

Shenyang Rustproof Packaging

Material Co., Ltd

##### C240 - Refurbishment

Casey Equipment Corp

Danieli & C. Officine Meccaniche

Spa

DavyMarkham Limited

##### Jasper

Revas Technologies SpA

Tata Steel Projects

Welding Alloys Group

##### C250 - Roll Welding

Corewire Limited

Welding Alloys Group

##### C260 - Roll Welding

##### Machines

Corewire Limited

Welding Alloys Group


##### C270 - Slab Machines

Association For Iron & Steel

Technology (AIST)


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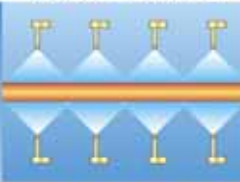
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Casey Equipment Corp  
 Danielli & C. Officine Meccaniche Spa  
 Inteco Special Melting Technologies GmbH  
 Interstop Flow Control Technology  
 JP Steel Plantech Co  
 LASE GmbH Industriell Lasertechnik  
 M+M Greaves (Machinery)  
 Revas Technologies SpA  
 RHI AG  
 Sarclad Ltd  
 Siemens VAI Metals GmbH & Co  
 Tata Steel Projects

**C280 - Spray Nozzles (Caster)**

Canamar Technologies Inc  
 Lechler GmbH  
 Lechler Ltd  
 STS S.R.L.  
 Tata Steel Projects

**C290 - Strip Casters**

HE Phipps Co Inc  
 M+M Greaves (Machinery)  
 Shenyang Rustproof Packaging Material Co., Ltd

**C300 - Thin Slab & Strip Machines**

Arinox SpA  
 Bachknives, Division Of Hermanite Corp  
 Danielli & C. Officine Meccaniche Spa  
 HE Phipps Co Inc  
 RHI AG  
 Sarclad Ltd

**C310 - Tundish Heating Systems**

Bloom Engineering Company

**Fives North American Combustion Inc**

Fives North American Combustion UK Ltd  
 Inteco Special Melting Technologies GmbH  
 SMS Mevac GmbH  
 Tetrionics Ltd

**C320 - Tundishes**

Cone Drive Textron  
 Danielli & C. Officine Meccaniche Spa

**Fives North American Combustion Inc**

Fives North American Combustion UK Ltd  
 Interstop Flow Control Technology  
 Joneja Bright Steels Pvt Ltd  
 Revas Technologies SpA  
 RHI AG  
 STS S.R.L.  
 Tata Steel Projects  
 Technical Weighing Services Inc

**C330 - Vertical Machines**

Concast AG  
 Cone Drive Textron  
 Danielli & C. Officine Meccaniche Spa  
 Inteco Special Melting Technologies GmbH

STS S.R.L.  
 Tata Steel Projects  
**C340 - Water Treatment Plant**  
 Automazioni Industriali Capitanio  
 CMI UVK GmbH  
 Danielli & C. Officine Meccaniche Spa  
 Rio Tinto Minerals  
 S.T.S. Services S.R.L.  
 Unipersonale  
 STS S.R.L.  
 Tata Steel Projects

**FORGING**

**F10 - Die Lubrication Equipment**

Canamar Technologies Inc

**F20 - Die Repairs**

Corewire Limited

**F30 - Die Welding Machines**

Corewire Limited

**F40 - Forging Furniture Repairs**

Corewire Limited  
 Welding Alloys Group

**F50 - Forging Hammers**

Lasco Umformtechnik GmbH  
 M+M Greaves (Machinery)  
 Pearson Panke Limited  
 Presstrade AG  
 Presstrade Handelsgesellschaft mbH

TrueForge Global Machinery Corp.  
 Welding Alloys Group

**F60 - Forging Manipulators**

Dango & Diententhal Maschinenbau GmbH  
 Danielli & C. Officine Meccaniche Spa

Henschel Industrietechnik  
 Handlingsystems GmbH (ANDROMAT)

Lasco Umformtechnik GmbH  
 M+M Greaves (Machinery)  
 Müller Weingarten AG

Pearson Panke Limited  
 Presstrade AG  
 Presstrade Handelsgesellschaft mbH

Revas Technologies SpA  
 TrueForge Global Machinery Corp.

**F70 - Forging Presses**

Butech Bliss  
 Danielli & C. Officine Meccaniche Spa  
 DavyMarkham Limited  
 Lasco Umformtechnik GmbH  
 M+M Greaves (Machinery)  
 Müller Weingarten AG  
 Pearson Panke Limited  
 Presstrade AG  
 Presstrade Handelsgesellschaft mbH

Revas Technologies SpA  
 TrueForge Global Machinery Corp.  
 Welding Alloys Group



**F80 - Industrial Gas Suppliers/Combustion Technologies**

Air Products Europe  
AirSep Corp - Commercial Products Division  
Elster GmbH

**Fives North American Combustion Inc**

Praxair Inc  
WS Wärmeprozessstechnik GmbH

**F90 - Isostatic Presses**  
Engineered Pressure Systems Int NV  
Presstrade AG  
TrueForge Global Machinery Corp.

**F100 - Powder Metallurgy**

Hascor BV  
Lasco Umformtechnik GmbH  
Osterwalder AG  
Pearson Panke Limited  
Presstrade AG

**HEAT TREATMENT FURNACES**

**H10 - Batch Annealing Furnaces**

**Andritz Maerz GmbH**  
Can-Eng Furnaces International Limited  
Casey Equipment Corp  
Consarc Engineering Limited  
Consolidated Engineering Company  
Danieli & C. Officine Meccaniche Spa  
EBNER Industrieofenbau GmbH

**Fives North American Combustion UK Ltd**

Fives Stein  
Galaxie Corporation  
Innoval Technology Ltd  
L & L Special Furnace Co Inc  
Linde AG  
LOI Thermprocess GmbH  
Outokumpu OYJ  
Rad-Con Inc  
TenoVA CORE

TenoVA LOI ITALIMPIANTI  
TenoVA SPA (HQ)  
Wellman Thermal Technologies Ltd

**H20 - Bright Annealing Furnaces**

Aichelin GmbH  
Can-Eng Furnaces International Limited  
CMI UVK GmbH  
Consarc Engineering Limited  
Consolidated Engineering Company  
EBNER Industrieofenbau GmbH  
JP Steel Plantech Co.  
L & L Special Furnace Co Inc  
LOI Thermprocess GmbH  
Machinery International Corp  
Outokumpu OYJ  
Pillar Induction  
Rad-Con Inc  
RGS Mill Products Corp  
TDI Group LLC  
TenoVA CORE

TenoVA LOI ITALIMPIANTI  
TenoVA SPA (HQ)  
Wellman Thermal Technologies Ltd

**H30 - Continuous Annealing Furnaces**

Aichelin GmbH  
Can-Eng Furnaces International Limited  
CMI UVK GmbH  
Consolidated Engineering Company  
Danieli & C. Officine Meccaniche Spa  
EBNER Industrieofenbau GmbH

Fives Stein  
L & L Special Furnace Co Inc  
LOI Thermprocess GmbH

Major  
Outokumpu OYJ  
RGS Mill Products Corp  
SMS Meer SpA  
TDI Group LLC

TenoVA CORE  
TenoVA LOI ITALIMPIANTI  
TenoVA SPA (HQ)  
Thermocast Spa

**H40 - Continuous Carburizing**

Aichelin GmbH  
Can-Eng Furnaces International Limited  
TenoVA LOI ITALIMPIANTI

**H60 - Furnaces For Automotive & Aluminium Sectors**

Aichelin GmbH  
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH  
Can-Eng Furnaces International Limited

TenoVA LOI ITALIMPIANTI  
**H70 - Industrial Gas Suppliers/Combustion Technologies**

Aichelin GmbH  
Air Products Europe  
AirSep Corp - Commercial Products Division  
EBNER Industrieofenbau GmbH  
Elster GmbH

**Fives North American Combustion Inc**

Fives North American Combustion UK Ltd  
Major  
Praxair Inc

Wellman Thermal Technologies Ltd  
WS Wärmeprozessstechnik GmbH

**H80 - Normalising Furnaces**

Aichelin GmbH  
Andritz Maerz GmbH  
Can-Eng Furnaces International Limited  
Consolidated Engineering Company  
Danieli & C. Officine Meccaniche Spa  
EBNER Industrieofenbau GmbH  
L & L Special Furnace Co Inc  
LOI Thermprocess GmbH  
Outokumpu OYJ

Pillar Induction  
RGS Mill Products Corp  
SMS Meer SpA  
Wellman Thermal Technologies Ltd

**H90 - Tempering Furnaces**

Andritz Maerz GmbH  
Can-Eng Furnaces International Limited  
Consarc Engineering Limited  
Consolidated Engineering Company  
Danieli & C. Officine Meccaniche Spa

EBNER Industrieofenbau GmbH  
Fives North American Combustion UK Ltd

L & L Special Furnace Co Inc  
LOI Thermprocess GmbH  
Outokumpu OYJ  
SMS Meer SpA  
Wellman Thermal Technologies Ltd

**H100 - Vacuum Furnaces**

Consarc Engineering Limited  
Pfeiffer Vacuum GmbH

**IRONMAKING**

**I10 - Blast Furnaces**

Arcelor Mittal  
Association For Iron & Steel Technology (AIST)  
Berry Metals Co  
Claudius Peters Projects GmbH  
Clyde Materials Handling  
Cone Drive Textron  
Danieli & C. Officine Meccaniche Spa

Danieli Corus  
Grafftech International  
Hatch Ltd  
Joneja Bright Steels Pvt Ltd  
L & L Special Furnace Co Inc  
Paul Wurth SA  
Praxair Inc  
Siemens VAI Metals GmbH & Co  
Siemens VAI Metals Technologies Ltd

TDI Group LLC  
TenoVA SPA (HQ)

**I20 - Blast Furnaces Components**

Ajotec GmbH  
Berry Metals Co  
Claudius Peters Projects GmbH  
Danieli & C. Officine Meccaniche Spa  
Danieli Corus  
Electroal Heavy Engineering Works JSC

Grafftech International  
LASE GmbH Industrielle Lasertechnik  
Paul Wurth SA  
Saar-Metallwerke GmbH  
Siemens VAI Metals Technologies Ltd

Tata Steel Projects  
TMT - Tapping Measuring Technology GmbH  
TMT - Tapping Measuring Technology Sarl  
Woodings Industrial Corporation

**I30 - Blast Furnaces Refurbishment**

Claudius Peters Projects GmbH  
Danieli & C. Officine Meccaniche Spa  
Danieli Corus  
Grafftech International  
Hatch Ltd  
Paul Wurth SA  
Siemens VAI Metals Technologies Ltd

Tata Steel Projects  
Welding Alloys Group  
Woodings Industrial Corporation

**I40 - DR Plants**

Danieli & C. Officine Meccaniche Spa  
Hatch Ltd  
International Iron Metallics Association Limited (IIMA)  
Midrex Technologies Inc

Outotec  
Paul Wurth SA

Polypipes Ltd  
Praxair Inc  
Siemens VAI Metals GmbH & Co  
TenoVA HYL  
TenoVA SPA (HQ)

**I50 - Electric Reduction Furnaces**

ABP Induction Ltd  
Hatch Ltd  
Meltech Ltd  
TenoVA Melt Shops

**I60 - Hot Blast Stoves**

Claudius Peters Projects GmbH  
Danieli & C. Officine Meccaniche Spa  
Danieli Corus  
Paul Wurth SA  
Siemens VAI Metals Technologies Ltd

Woodings Industrial Corporation  
**I70 - Industrial Gas Suppliers/Combustion Technologies**

Air Products Europe  
AirSep Corp - Commercial Products Division  
Elster GmbH

**Fives North American Combustion Inc**

Fives North American Combustion UK Ltd  
Praxair Inc

**I80 - Smelting Reduction**

Berry Metals Co  
International Iron Metallics Association Limited (IIMA)  
Joneja Bright Steels Pvt Ltd  
Outotec

TenoVA Melt Shops

**I90 - Submerged Arc Furnaces**

Dango & Dienenthal Maschinenbau GmbH  
TenoVA Pyromet  
**I100 - Tap Hole Equipment**  
Beda Oxygentechnik GmbH  
Danieli & C. Officine Meccaniche

# CLASSIFIED LISTINGS

Spa  
Hardrock Systems  
Interstop Flow Control Technology  
Siemens VAI Metals Technologies Ltd  
Woodings Industrial Corporation

## RAW MATERIALS

### R10 - Coal

Arcelor Mittal  
Claudius Peters Projects GmbH  
Danieli Corus  
DCM DECOMetal GmbH  
Jonja Bright Steels PVT Ltd  
Metalloyd Ltd  
Stemcor  
STG Holdings

### R20 - Coke

Claudius Peters Projects GmbH  
DCM DECOMetal GmbH  
Fosbel Inc  
Jonja Bright Steels PVT Ltd  
Linston Limited  
Metalloyd Ltd  
Stemcor

### R30 - Deoxidants (pebbles/pellets)

Electrostral Heavy Engineering Works  
JSC

Linston Limited  
Refmin China Co., Limite

### R40 - Direct Reduced Iron (DRI)

Hascor BV  
HBI Association Ltd  
International Iron Metallic Association Limited (IIMA)  
Metalloyd Ltd  
Midrex Technologies Inc

### Outotec

Polypipes Ltd  
Stemcor

Tenova HYL  
Tenova SPA (HQ)

### R50 - Electricity Supply

Joslyn HI-Voltage Corp  
Shenyang Rustproof Packaging Materials Co., Ltd

### R60 - Ferroalloys

Borax  
DCM DECOMetal GmbH  
Hascor BV  
London & Scandinavian Analytical Services - LSM-Analytical Services

Metallurgica GmbH & Co.KG

Nizi International S.A.

Rio Tinto Minerals

Stemcor

STS S.R.L.

Tenova SPA (HQ)

### R70 - Fluxes

Ajoy Chemical Industries  
Borax

Carneuse Lime & Stone  
Metallurgica GmbH & Co.KG

Rio Tinto Minerals

### R80 - Gas Supplis

AirSep Corp - Commercial Products Division  
Linde AG

Praxair Inc

### R90 - Graphite Pellets

Refmin China Co., Limited

### R100 - Industrial Gas Suppliers/Combustion Technologies

Air Products Europe  
AirSep Corp - Commercial Products Division  
Elster GmbH

### Fives North American Combustion Inc

Praxair Inc

### R110 - Iron Ore

Arcelor Mittal  
International Iron Metallicas Association Limited (IIMA)

Metalloyd Ltd

Outotec

Shenyang Rustproof Packaging Materials Co., Ltd

Stemcor

### R120 - Reagents

### R130 - Scrap

Arcelor Mittal

Metalloyd Ltd

Polypipes Ltd

Stemcor

STG Holdings

Technical Weighing Services Inc

### R140 - Slag Formers

Borax

Jonja Bright Steels PVT Ltd

Linston Limited

Rio Tinto Minerals

### R150 - Welding Fluxes

Corewire Limited

Welding Alloys Group

### R160 - Welding Wires

Corewire Limited  
Welding Alloys Group

## RAW MATERIALS PREPARATION

### R200 - Coke Oven by-Product Plant

Fosbel Inc

Paul Wurth SA

### R210 - Coke Oven Peripherals

Fosbel Inc

Ventilatorenfabrik Oelde GmbH

Woodings Industrial Corporation

### R220 - Coke Ovens

Association For Iron & Steel

Technolgy (AIST)

Danieli & C.Officine Meccaniche Spa

Fosbel Inc

Paul Wurth SA

### R230 - Crushing & Screening

Danieli & C.Officine Meccaniche Spa

Linston Limited

London & Scandinavian Analytical

Services - LSM-Analytical

Services

Outotec

Welding Alloys Group

### R240 - Feeding & Blending Equipment

Aumund Foerdertechnik GmbH

Automazioni Industriali Capitanio

Canamar Technologies Inc

Danieli & C.Officine Meccaniche Spa

### R250 - Ferroalloy Granulation

Metalloyd Ltd

### R260 - Gas Production Plant

AirSep Corp - Commerical Products

Division

Linde AG

Praxair Inc

Ventilatorenfabrik Oelde GmbH

### R270 - Hot Briquetting

Danieli & C.Officine Meccaniche Spa

HBI Association Ltd

International Iron Metallicas

Association Limited (IIMA)

Köppern GmbH & Co KG

### R280 - Hydrometallurgical Plant

Hatch Ltd

Outotec

Schaeffler (UK) Ltd

### R290 - Leaching Plant

Outotec

### R300 - Pelletising Plant

Danieli & C.Officine Meccaniche Spa

International Iron Metallicas

Association Limited (IIMA)

Outotec

Stemcor

Uzinexport SA

Ventilatorenfabrik Oelde GmbH

### R310 - Powder Metallurgy Plant

Ajoy Chemical Industries

Jonja Bright Steels Pvt Ltd

Linston Limited

Osterwalder AG

### R320 - Scrap Processing Equipment

ASKO BV

Danieli & C.Officine Meccaniche Spa

Framag Industrieanlagenbau GmbH

M+M Greaves (Machinery)

Major

Nuqsafe

### R330 - Sinter Plant

International Iron Metallicas

Association Limited (IIMA)

IRM Group

JP Steel Plantech Co.

Osterwalder AG

Outotec

Siemens VAI Metals GmbH & Co

Uzinexport SA

Ventilatorenfabrik Oelde GmbH

Welding Alloys Group

## REHEATING FURNACES

### R400 - Burners

Aichelin GmbH

Air Products Europe

Bloom Engineering Company

Danieli & C. Officine Meccaniche

Spa

EBNER Industrieofenbau GmbH

Elster GmbH

### Fives North American Combustion Inc

Fives North American Combustion UK Ltd

Fives Stein

Kanthal AB

Linde AG

Praxair Inc

SMS Meer SpA

Tenova LOI ITALIMPIANTI

Tenova SPA (HQ)

Wellman Thermal Technologies Ltd

### R410 - Induction Furnaces

Fives Stein

Inductotherm Corp

Pillar Induction

Polypipes Ltd

Presstrade AG

Presstrade Handelsgesellschaft mbH

### R420 - Industrial Gas Suppliers/Combustion Technologies

Air Products Europe

AirSep Corp - Commercial Products

Division

Elster GmbH

### Fives North American Combustion Inc

Fives North American Combustion UK Ltd

Praxair Inc

WS Wärmeprozessechnik GmbH

### R430 - Pusher Furnaces

Andritz Maerz GmbH

BNB

Danieli & C. Officine Meccaniche

Spa

Fives Stein

Iprolam S.A.

LOI Thermprocess GmbH

Polypipes Ltd

RGS Mill Products Corp

SMS Meer SpA

Tenova LOI ITALIMPIANTI

Tenova SPA (HQ)

Thermocast Spa

Wellman Thermal Technologies Ltd

### R440 - Reheating Furnace Components

Andritz Maerz GmbH

Consolidated Engineering Company

Danieli & C. Officine Meccaniche

Spa

Fives Stein

Kanthal AB

Linde AG

Plakoma GmbH

Praxair Inc

RGS Mill Products Corp

SMS Meer SpA

Thermocast Spa

### R450 - Roller Hearth Furnaces

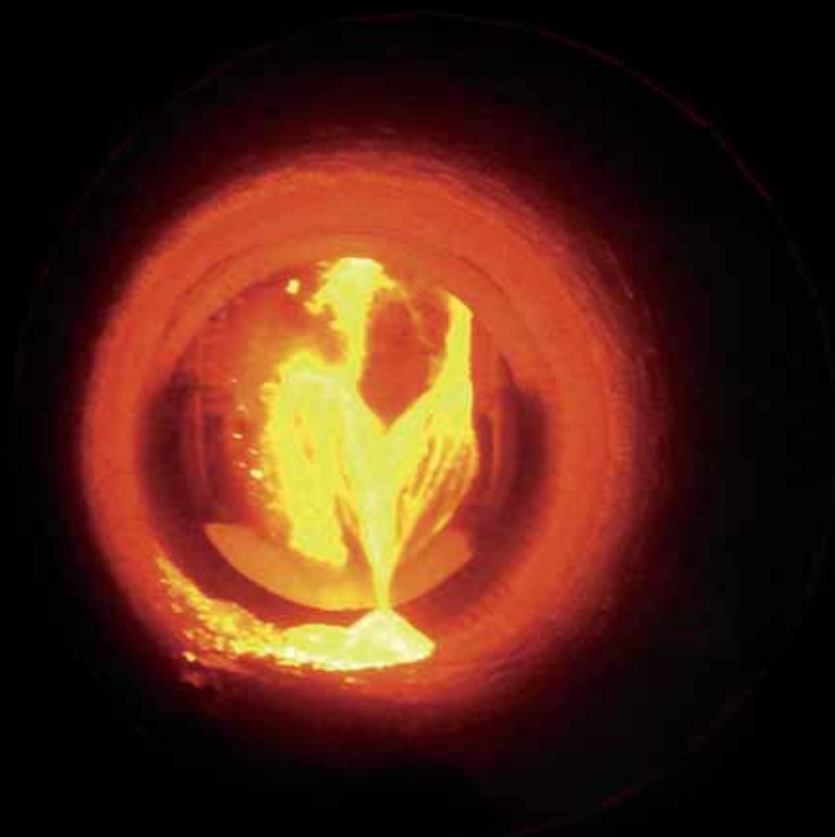
Andritz Maerz GmbH

Consolidated Engineering Company

Danieli & C. Officine Meccaniche

Spa

# YOUR WORLD



# IS OUR WORLD

MAGNA manufactures refractory mixes (Ramming, Fettling, Gunning and Tundish mixes) with our own DBM (see picture above of one of our kilns sintering the mineral of our own mine). As a steel producer you require refractory mixes for reliable performance, safety and cost efficiency?

Definitely your world is our world!

**MAGNA: a world of performance.**

**MAGNA**  
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31630 Zubiri. SPAIN  
tel: +34 948 421 644  
magna@magnesitasnavarras.es

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tel. : + 52 81 8338 1421  
fax.: + 52 81 8338 3191  
magnamexico@roullier.com

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J0H 1Y4 Québec  
CANADA  
tel: +1 514 512 0162  
vmorais@magnanorthamerica.com

# CLASSIFIED LISTINGS

EBNER Industrieofenbau GmbH  
L & L Special Furnace Co Inc  
LOI Thermprocess GmbH  
RGS Mill Products Corp  
Shenyang Rustproof Packaging  
Material Co., Ltd  
SMS Meer Spa  
Tenova LOI ITALIMPIANTI  
Tenova SPA (HQ)  
Thermocast Spa

Wellman Thermal Technologies Ltd  
**R460 - Rotary Hearth  
Furnaces**

Andritz Maerz GmbH  
Consolidated Engineering Company  
Danieli & C. Officine Meccaniche  
Spa  
Linde AG  
LOI Thermprocess GmbH  
SMS Meer Spa  
Tenova LOI ITALIMPIANTI  
Tenova SPA (HQ)  
Wellman Thermal Technologies Ltd  
**R470 - Soaking Pits**

Andritz Maerz GmbH  
Consolidated Engineering Company  
Danieli & C. Officine Meccaniche  
Spa  
Innoval Technology Ltd  
Linde AG  
Wellman Thermal Technologies Ltd  
**R480 - Tunnel Furnaces**

Andritz Maerz GmbH  
Consolidated Engineering Company  
Fives Stein  
LOI Thermprocess GmbH  
RGS Mill Products Corp  
Tenova LOI ITALIMPIANTI  
Tenova SPA (HQ)  
Thermocast Spa  
Wellman Thermal Technologies Ltd  
**R490 - Walking Beam  
Furnaces**

Andritz Maerz GmbH  
BNB  
Danieli & C. Officine Meccaniche  
Spa  
Fives Stein  
Iprolam S.A.  
LOI Thermprocess GmbH  
RGS Mill Products Corp  
SMS Meer Spa  
STS S.R.L.  
Tenova LOI ITALIMPIANTI  
Tenova SPA (HQ)  
Thermocast Spa  
Wellman Thermal Technologies Ltd

## ROLLING MILLS

### R550 - Bar & Light Section

Ansaldo Sistemi Industriali S.p.A.  
Automazioni Industriali Capitanio  
BNB  
BSE Badische Stahl-Engineering  
GmbH  
Casey Equipment Corp  
Converteam UK Ltd  
Danieli & C. Officine Meccaniche  
Spa  
DSS Global Trading

Electrostal Heavy Engineering Works  
JSC  
Fives Bronx Ltd  
Friedrich Kocks GmbH & Co KG  
Galaxie Corporation  
Horsburgh & Scott Co  
Ilhanlar Haddecilik  
Inductotherm Corp  
Iprolam S.A.  
JP Steel Plantech Co  
Lang Machinery Co Inc  
M+M Greaves (Machinery)  
Machinery International Corp  
Metalgoi Siderurgica S.P.A.  
Polypipes Ltd  
Reed Machinery LtdLtd  
Revas Technologies Spa  
RGS Mill Products Corp  
S.T.S. Services S.R.L. Unipersonale  
Siemens VAI Metals GmbH & Co  
SMS Meer Spa  
Sparkonix (india) Pvt Ltd

### SPX Precison Components - FENN Division

Trueforge Global Machinery Corp  
Walzen Irlle GmbH  
Yieh Corp  
**R560 - Billet**  
Automazioni Industriali Capitanio  
BNB  
Danieli & C. Officine Meccaniche  
Spa  
DavyMarkham Limited  
DSS Global Trading  
Electrostal Heavy Engineering Works  
JSC

Fives Bronx Ltd  
Horsburgh & Scott Co  
Inductotherm Corp  
JP Steel Plantech Co  
MNI UK Ltd (Formely Numtec Ltd)  
Polypipes Ltd  
Revas Technologies Spa  
SMS Meer Spa  
Technical Weighing Services Inc  
Thermocast Spa  
Trueforge Global Machinery Corp  
Walzen Irlle GmbH  
**R570 - Blooming**  
Automazioni Industriali Capitanio  
Bachknives, Division Of Hermanite  
Corp  
Casey Equipment Corp  
Danieli & C. Officine Meccaniche  
Spa  
Horsburgh & Scott Co  
Inductotherm Corp  
Machinery International Corp  
MNI UK Ltd (Formely Numtec Ltd)  
Revas Technologies Spa  
Trueforge Global Machinery Corp  
**R580 - Cold Reversing  
Mills**

ABB Oy (Processing Industry)  
Ansaldo Sistemi Industriali S.p.A.  
Butech Bliss  
Casey Equipment Corp  
Chia Far Industrial Factory Co  
Converteam UK Ltd  
Danieli & C. Officine Meccaniche  
Spa

Danieli Fröhling  
DavyMarkham Limited  
Delta Brands Inc (US)  
Fives DMS  
Galaxie Corporation  
HE Phipps Co Inc  
Horsburgh & Scott Co  
HPL-Neugnadenfelder  
Maschinenfabrik GmbH  
IRM Group  
Josef Frohling GmbH & Co KG  
JP Steel Plantech Co  
M+M Greaves (Machinery)  
Machinery International Corp  
Pinard Enterprises  
Reed Machinery Ltd  
Shenyang Rustproof Packaging  
Material Co., Ltd  
Siemens VAI Metals Technologies  
Ltd

### SPX Precison Components - FENN Division

TDI Group LLC  
Technical Weighing Services Inc  
Tenova I2S  
Trueforge Global Machinery Corp  
**R590 - Cold Rolling Rod  
& Wire**  
Arcelor Mittal  
Casey Equipment Corp  
CMI UVK GmbH  
Converteam UK Ltd  
Fives Bronx Ltd  
Horsburgh & Scott Co  
Machinery International Corp  
MNI UK Ltd (Formely Numtec Ltd)  
Shenyang Rustproof Packaging  
Material Co., Ltd

### SPX Precison Components - FENN Division

STG Holdings  
TDI Group LLC  
Yieh Corp  
**R600 - Cold Tandem**  
ABB Oy (Processing Industry)  
Ansaldo Sistemi Industriali S.p.A.  
Association For Iron & Steel  
Technology (AIST)

Butech Bliss  
Converteam UK Ltd  
Danieli & C. Officine Meccaniche  
Spa  
Danieli Fröhling  
DavyMarkham Limited  
Galaxie Corporation  
HE Phipps Co Inc  
Horsburgh & Scott Co  
HPL-Neugnadenfelder  
Maschinenfabrik GmbH  
Innoval Technology Ltd  
IRM Group  
Josef Frohling GmbH & Co KG  
JP Steel Plantech Co  
Machinery International Corp  
Siemens VAI Metals GmbH & Co  
SPX Precison Components - FENN  
Division  
TDI Group LLC  
Tenova I2S

### R610 - Direct Rolling Technology

ABB Oy (Processing Industry)  
Arinox Spa  
Butech Bliss  
Cone Drive Textron  
Danieli & C. Officine Meccaniche  
Spa  
HPL-Neugnadenfelder  
Maschinenfabrik GmbH  
Inductotherm Corp  
TMEIC

### R620 - Hot Rolling Mill Components

ABB Oy (Processing Industry)  
Ansaldo Sistemi Industriali S.p.A.  
BNB  
Butech Bliss  
Casey Equipment Corp  
CMI UVK GmbH  
Converteam UK Ltd  
Danieli & C. Officine Meccaniche  
Spa  
David Brown Engineering  
DavyMarkham Limited  
Electrostal Heavy Engineering Works  
JSC  
Fives Bronx Ltd  
Friedrich Kocks GmbH & Co KG  
Haag + Zeissler Maschinenelemente  
GmbH  
Hatch Technologies Ltd  
Horsburgh & Scott Co  
Inductotherm Corp  
Iprolam S.A.  
IRM Group  
Kanthal AB  
Lechler GmbH  
MNI UK Ltd (Formely Numtec Ltd)  
Pinard Enterprises  
RGS Mill Products Corp  
Sarclad Ltd  
Shenyang Rustproof Packaging  
Material Co., Ltd  
Siemens VAI Metals Technologies  
Ltd  
SMS Meer Spa  
Sohar Steel L.L.C  
Sparkonix (india) Pvt Ltd

### SPX Precison Components - FENN Division

STS S.R.L.  
Technical Weighing Services Inc  
Thermocast Spa  
TSTD Inc  
Uzinexport SA  
Van Heyghen Staal  
Voith Turbo GmbH & Co KG  
Walzen Irlle GmbH  
**R630 - Hot Strip**  
ABB Oy (Processing Industry)  
Ansaldo Sistemi Industriali S.p.A.  
Association For Iron & Steel  
Technology (AIST)  
Bachknives, Division Of Hermanite  
Corp  
Butech Bliss  
Casey Equipment Corp  
CMI UVK GmbH  
Converteam UK Ltd

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# CLASSIFIED LISTINGS

Danieli & C. Officine Meccaniche Spa  
Danieli Fröhling  
DavyMarkham Limited  
Galaxie Corporation  
Hatch Technologies Ltd  
HE Phipps Co Inc  
Horsburgh & Scott Co  
Innoval Technology Ltd  
Iprolam S.A.  
IRM Group  
ISRA Parsytec Asia Pacific Co., Ltd  
ISRA Parsytec GmbH  
ISRA Surface Vision GmbH  
ISRA Surface Vision Inc  
ISRA Vision (Shanghai) Corp., Ltd  
ISRA Vision AG  
JP Steel Plantech Co  
Machinery International Corp  
MNI UK Ltd (Formely Numtec Ltd)  
Reed Machinery Ltd  
RGS Mill Products Corp  
Shenyang Rustproof Packaging Material Co., Ltd  
Siemens VAI Metals GmbH & Co  
Siemens VAI Metals Technologies Ltd

## SPX Precision Components - FENN Division

Technical Weighing Services Inc  
Thermocast Spa  
Trueforge Global Machinery Corp  
TSTD Inc  
Van Heyghen Staal  
Walzen Irle GmbH  
Yieh Corp  
**R650 - Plate**  
Ansaldo Sistemi Industriali S.p.A.  
Arcelor Mittal  
Association For Iron & Steel Technology (AIST)  
Bachknives, Division Of Hermanite Corp  
Butech Bliss  
Casey Equipment Corp  
CMI UVK GmbH  
Converteam UK Ltd  
Danieli & C. Officine Meccaniche Spa

DavyMarkham Limited  
Dillinger Huette AG  
Galaxie Corporation  
HE Phipps Co Inc  
Horsburgh & Scott Co  
IRM Group  
JP Steel Plantech Co  
MNI UK Ltd (Formely Numtec Ltd)  
Reed Machinery Ltd  
RGS Mill Products Corp  
Shenyang Rustproof Packaging Material Co., Ltd  
Siemens VAI Metals GmbH & Co  
Siemens VAI Metals Technologies Ltd

## SPX Precision Components - FENN Division

TDI Group LLC  
Technical Weighing Services Inc  
Trueforge Global Machinery Corp

TSTD Inc  
Walzen Irle GmbH  
Yieh Corp  
**R660 - Rail & Heavy Section**  
Ansaldo Sistemi Industriali S.p.A.  
Automazioni Industriali Capitanio  
CMI UVK GmbH  
Danieli & C. Officine Meccaniche Spa  
DavyMarkham Limited  
Electrostral Heavy Engineering Works JSC  
Fives Bronx Ltd  
Horsburgh & Scott Co  
Inductotherm Corp  
Reed Machinery Ltd  
RGS Mill Products Corp  
Sparkonix (India) Pvt Ltd  
Trueforge Global Machinery Corp  
Walzen Irle GmbH  
**R670 - Rod**

Association For Iron & Steel Technology (AIST)  
Automazioni Industriali Capitanio  
BSE Badische Stahl-Engineering GmbH  
Converteam UK Ltd  
Danieli & C. Officine Meccaniche Spa  
DavyMarkham Limited  
DSS Global Trading  
Fives Bronx Ltd  
Friedrich Kocks GmbH & Co KG  
Horsburgh & Scott Co  
Inductotherm Corp  
JP Steel Plantech Co  
Lang Machinery Co Inc  
Machinery International Corp  
Polypipes Ltd  
Reed Machinery Ltd  
RGS Mill Products Corp  
SMS Meer SpA  
Sparkonix (India) Pvt Ltd  
STG Holdings  
Trueforge Global Machinery Corp  
Walzen Irle GmbH  
Yieh Corp

## R680 - Roll Welding

Corewire Limited

## R690 - Roll Welding Machines

Corewire Limited  
**R700 - Sendzimir Type Mills**  
ABB Oy (Processing Industry)  
Ansaldo Sistemi Industriali S.p.A.  
Casey Equipment Corp  
Chia Far Industrial Factory Co  
Danieli & C. Officine Meccaniche Spa  
Fives DMS  
Galaxie Corporation  
IRM Group  
ISRA Parsytec Asia Pacific Co., Ltd  
ISRA Parsytec GmbH  
ISRA Surface Vision GmbH  
ISRA Surface Vision Inc  
ISRA Vision (Shanghai) Corp., Ltd  
ISRA Vision AG  
Machinery International Corp

Pinard Enterprises  
Reed Machinery Ltd  
Sarclad Ltd  
Walzen Irle GmbH  
**R710 - Skin Pass & Temper**  
ABB Oy (Processing Industry)  
Air Products Europe  
Ansaldo Sistemi Industriali S.p.A.  
Butech Bliss  
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH  
Chia Far Industrial Factory Co  
Danieli & C. Officine Meccaniche Spa  
DavyMarkham Limited  
Delta Brands Inc (US)  
Fives DMS  
Galaxie Corporation  
HE Phipps Co Inc  
IRM Group  
ISRA Parsytec Asia Pacific Co., Ltd  
ISRA Parsytec GmbH  
ISRA Surface Vision GmbH  
ISRA Surface Vision Inc  
ISRA Vision (Shanghai) Corp., Ltd  
ISRA Vision AG  
Josef Frohling GmbH & Co KG  
Machinery International Corp  
Reed Machinery Ltd  
Sarclad Ltd

## SPX Precision Components - FENN Division

Technical Weighing Services Inc  
TSTD Inc  
Walzen Irle GmbH  
**R720 - Slabbing**  
Converteam UK Ltd  
Danieli & C. Officine Meccaniche Spa  
DavyMarkham Limited  
Inductotherm Corp  
MNI UK Ltd (Formely Numtec Ltd)  
Reed Machinery Ltd  
Technical Weighing Services Inc  
Trueforge Global Machinery Corp  
Walzen Irle GmbH

## ROLLING PERIPHERAL/FINISHING

### R800 - Abrasive Cutter

Advanced Machine & Engineering Co  
BRAUN Maschinenfabrik GmbH  
Shenyang Rustproof Packaging Material Co., Ltd  
**R820 - Bearings**  
Konrad Corporation  
Shenyang Rustproof Packaging Material Co., Ltd

### R830 - Binding & Strapping

Danieli & C. Officine Meccaniche Spa  
M.J. Maillis UK Ltd  
Plakoma GmbH  
SES Engineering

### R840 - Blade Maintenance

Advanced Machine & Engineering Co  
Asko Inc  
Dienes Werke Fur Maschinenteile GmbH & Co KG  
Kasto Ltd

### R850 - Butt Welding

Danieli & C. Officine Meccaniche Spa

### R860 - Centreless Bar Turning

Danieli & C. Officine Meccaniche Spa  
M+M Greaves (Machinery)

### R880 - Cold Drawing Plant

Danieli & C. Officine Meccaniche Spa  
M+M Greaves (Machinery)  
Machinery International Corp  
Reed Machinery Ltd  
Shenyang Rustproof Packaging Material Co., Ltd  
STG Holdings

### R890 - Cooling Beds

BRAUN Maschinenfabrik GmbH  
Cone Drive Textron  
Danieli & C. Officine Meccaniche Spa  
Electrostral Heavy Engineering Works JSC

Lang Machinery Co Inc  
Plakoma GmbH  
Revas Technologies SpA  
SES Engineering

### R900 - Couplings

Electrostral Heavy Engineering Works JSC  
Konrad Corporation  
Voith Turbo inc

### R910 - Decoilers

ABB Oy (Processing Industry)  
Bradbury International UK Ltd  
Bronx Engineering Ltd  
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH  
Danieli & C. Officine Meccaniche Spa

Danieli Fröhling  
Heinrich Georg GmbH  
Maschinenfabrik  
HPL-Neugnadenfelder  
Maschinenfabrik GmbH

Pearson Panke Limited  
Pinard Enterprises  
Red Bud Industries  
SES Engineering  
Stam SPA  
Standex Engraving  
Ungerer GmbH + Co. KG

### R930 - Descaling

BWG Bergwerk-und Walzwerk-Maschinenbau GmbH  
Canamar Technologies Inc  
Casey Equipment Corp  
Danieli & C. Officine Meccaniche Spa  
Lechler Ltd  
MNI UK Ltd (Formely Numtec Ltd)  
Red Bud Industries

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## CLASSIFIED LISTINGS

RGS Mill Products Corp  
Steinert Elektromagnetbau GmbH  
**R940 - Drives**

AMI GE  
Automazioni Industriali Capitanio  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Cone Drive Textron  
Control Techniques UK - Telford  
Danieli & C. Officine Meccaniche  
Spa  
Electrostral Heavy Engineering Works  
JSC  
Horsburgh & Scott Co  
Konrad Corporation  
Voith Turbo GmbH & CO KG  
Voith Turbo inc

**R950 - Dryers**  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
**R960 - Edge Shears**

Asko Inc  
Bachknives, Division of Hermanite  
Corp  
Bronx Engineering Ltd  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Danieli & C. Officine Meccaniche  
Spa  
Danieli Fröhling  
Heinrich Georg GmbH  
Maschinenfabrik  
Josef Frohling GmbH & Co KG  
Pearson Panke Limited  
Pinard Enterprises  
Stam SPA  
Ungerer GmbH + Co. KG

**R970 - Embossing Lines**

HE Phipps Co Inc  
Pinard Enterprises  
Standex Engraving  
**R990 - Flying Shears**  
Automazioni Industriali Capitanio  
Bachknives, Division of Hermanite  
Corp

Bradbury International UK Ltd  
Bronx Engineering Ltd  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Casey Equipment Corp  
Cone Drive Textron  
Danieli & C. Officine Meccaniche  
Spa  
Delta Brands Inc (US)  
Electrostral Heavy Engineering Works  
JSC

Heinrich Georg GmbH  
Maschinenfabrik  
Lang Machinery Co Inc  
Pearson Panke Limited  
Pinard Enterprises  
Plakoma GmbH  
Revas Technologies SpA  
SMS Meer SPA  
Stam SPA  
TDI Group LLC  
Ungerer GmbH + Co. KG

**R1000 - Grinding &  
Surface Conditioning  
Equipment**

Advanced Machine & Engineering  
Co

Asko Inc  
BRAUN Maschinenfabrik GmbH  
Cone Drive Textron  
Danieli & C. Officine Meccaniche  
Spa  
Dienes Werke Fur Maschinenteile  
GmbH & Co KG  
FATA Hunter, Division of FATA S.p.A  
Konrad Corporation  
Sarclad Ltd  
SES Engineering  
Superbolt UK Ltd  
Vereco Srl

Vulcan Engineering Co.  
**R1010 - Guides**

Danieli & C. Officine Meccaniche  
Spa  
Fabris Inc  
Pinard Enterprises  
SES Engineering  
**R1020 - Levellers**

ABB Oy (Processing Industry)  
Bradbury International UK Ltd  
Bronx Engineering Ltd  
Butech Bliss  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Casey Equipment Corp  
Danieli & C. Officine Meccaniche  
Spa

DavyMarkham Limited  
Delta Brands Inc (US)  
Galaxie Corporation  
HE Phipps Co Inc  
Heinrich Georg GmbH  
Maschinenfabrik  
Herr-Voss Stamco  
Lang Machinery Co Inc  
M+M Greaves (Machinery)  
Machinery International Corp  
Pearson Panke Limited  
Pinard Enterprises  
Pinard Enterprises  
Plakoma GmbH  
Red Bud Industries  
Stam SPA  
TDI Group LLC  
Ungerer GmbH + Co. KG

**R1030 - Lubrication**

Air Products Europe  
Canamar Technologies Inc  
Condat Lubricants  
Innoval Technology Ltd  
Lechler Ltd  
Major  
Quaker Chemical Corporation  
**R1040 - Marking**  
Durable Mecco  
Hypertherm Europe B.V.  
IML Labels & Systems Ltd  
Kasto Ltd  
Magnemag A/S  
MNI UK Ltd (Formerly Numtec Ltd)  
Pannier Corp

Sparkonix (india) Pvt Ltd  
**R1050 - Mill Rolls**

Casey Equipment Corp  
Cone Drive Textron  
Electrostral Heavy Engineering Works  
JSC  
HPL-Neugnadenfelder

Maschinenfabrik GmbH  
Pinard Enterprises  
Sarclad Ltd  
Sparkonix (india) Pvt Ltd

**SPX Precison Components - FENN  
Division**

TSTD Inc  
Uzinexport SA  
Welding Alloys Group  
**R1060 - Roll Forming  
Lines**

Cone Drive Textron  
Galaxie Corporation  
Pinard Enterprises  
Reed Machinery Ltd  
Stam SPA  
Pinard Enterprises  
**R1070 - Roll Welding**  
Corewire Limited  
Welding Alloys Group

**R1080 - Roll Welding  
Machines**

Corewire Limited  
Welding Alloys Group  
**R1090 - Rotary Unions**

Beda Oxygentechnik GmbH  
Haag + Zeissler Machinenelemente  
GmbH  
Stam SPA

**R1100 - Saws**

Advanced Machine & Engineering  
Co  
Asko Inc  
BRAUN Maschinenfabrik GmbH  
Cone Drive Textron  
Danieli & C. Officine Meccaniche  
Spa

Framag Industrieanlagenbau GmbH  
Kasto Ltd

Presstrade AG  
Prosav Ltd  
Superbolt UK Ltd

**R1110 - Scarfing  
Equipment**

Beda Oxygentechnik GmbH  
Framag Industrieanlagenbau GmbH  
Plakoma GmbH  
Superbolt UK Ltd

**R1120 - Shaped Shears**

Asko Inc  
Bachknives, Division of Hermanite  
Corp  
Danieli & C. Officine Meccaniche  
Spa

Lang Machinery Co Inc  
Pinard Enterprises

**R1130 - Slitting  
Equipment**

ABB Oy (Processing Industry)  
Asko Inc  
Bachknives, Division of Hermanite  
Corp  
Bradbury International UK Ltd  
Bronx Engineering Ltd  
Danieli & C. Officine Meccaniche  
Spa  
Danieli Fröhling  
Delta Brands Inc (US)  
Dienes Werke Fur Maschinenteile  
GmbH & Co KG

Fabris Inc  
Fives Bronx Inc  
Galaxie Corporation  
HE Phipps Co Inc  
Heinrich Georg GmbH  
Maschinenfabrik  
Herr-Voss Stamco  
Josef Frohling GmbH & Co KG  
Machinery International Corp  
Pinard Enterprises  
Plakoma GmbH  
Red Bud Industries  
Reed Machinery Ltd  
Stam SPA  
TDI Group LLC

**R1140 - Spray Headers  
(rolling)**

Canamar Technologies Inc  
GRIP Engineering AG  
Innoval Technology Ltd  
Lechler GmbH  
Lechler Ltd  
Silvent UK Ltd

**R1150 - Static Shears**

Asko Inc  
Bachknives, Division of Hermanite  
Corp  
Bradbury International UK Ltd  
Bronx Engineering Ltd  
Danieli & C. Officine Meccaniche  
Spa  
Plakoma GmbH

**R1160 - Straighteners**

Bradbury International UK Ltd  
Bronx Engineering Ltd  
Casey Equipment Corp  
Danieli & C. Officine Meccaniche  
Spa

Delta Brands Inc (US)  
Fives Bronx Inc  
Fives Brox Ltd  
Galaxie Corporation  
Heinrich Georg GmbH  
Maschinenfabrik

Herr-Voss Stamco  
Lang Machinery Co Inc  
M+M Greaves (Machinery)  
Machinery International Corp  
Pinard Enterprises

Red Bud Industries  
Reed Machinery Ltd  
Revas Technologies SpA  
SMS Meer SPA  
Stam SPA  
TDI Group LLC

**R1170 - Stretch Bend  
Levelling Lines**

BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Pearson Panke Limited  
Red Bud Industries  
Ungerer GmbH + Co. KG

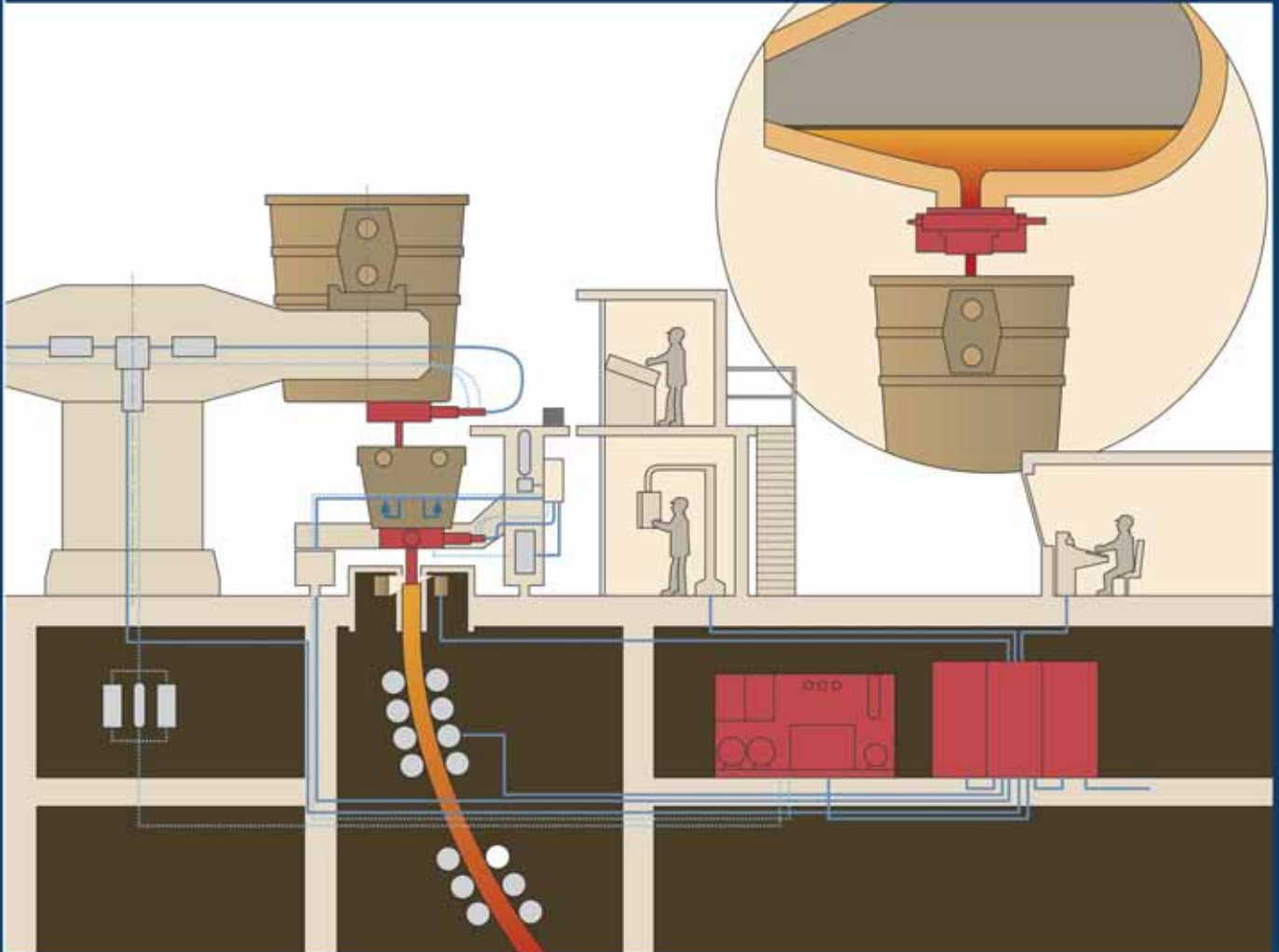
**STEEL  
MAKING/REFINING**

**S10 - AOD Converters**

Borax  
Danieli & C. Officine Meccaniche  
Spa  
Praxair Inc  
RHI AG



# Flow Control Technology from Converter to Mould



## Slide Gate Technology

- Tap hole gates for melting vessels
- Ladle gates
- Tundish gates
- Submerged nozzle changers
- Metering nozzle changers

## Drive- and Inert Gas Technology

- Hydraulic systems
- Cylinder drives
- Pneumatic drives
- Electric drives
- Inert gas purging systems

## Process Control Technology

- Evaluation of casting process
- Automatic mould level control
- Automatic tundish level control
- Visualization of casting process
- Integrated early slag detection

## Additional Services

- Project engineering
- Supervision/commissioning
- Training
- After sales service

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Phone +1 513 272 54 81, Fax +1 513 272 54 84, www.interstop-usa.com



# CLASSIFIED LISTINGS

Siemens VAI Metals GmbH & Co KG  
Woodings Industrial Corporation  
UHT Uvan Hagfors Teknologi

## **S20 - Bottom Blown Converters**

Dango & Dienenthal Maschinenbau GmbH  
Danieli & C. Officine Meccaniche Spa  
Joneja Bright Steels PVT Ltd  
RHI AG

## **S30 - Combined Blowing Converters**

Joneja Bright Steels PVT Ltd  
Praxair Inc  
UHT Uvan Hagfors Teknologi

## **S40 - EAF Burners**

Air Products Europe  
Beda Oxygentechnik GmbH  
Berry Metals Co  
BSE Badische Stahl-Engineering GmbH  
Concast AG

Danieli & C. Officine Meccaniche Spa

Praxair Inc

Siemens VAI Metals Technologies GmbH

Tenova CORE

Tenova Melt Shops

## **S50 - Electric Arc Furnaces**

Arcelor Mittal  
Association For Iron & Steel Technology (AIST)

Berry Metals Co

BNB

BSE Badische Stahl-Engineering GmbH

Casey Equipment Corp

Concast AG

Danieli & C. Officine Meccaniche Spa

Galaxie Corporation

Graftech International

Hatch Ltd

Inteco Special Melting Technologies GmbH

Joslyn HI-Voltage Corp

JP Steel Plantech Co

L & L Special Furnace Co Inc

Polypipes Ltd

Praxair Inc

Revas Technologies SpA

RHI AG

Siemens VAI Metals GmbH & Co KG

Siemens VAI Metals Technologies GmbH

TDI Group LLC

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Danieli & C. Officine Meccaniche Spa

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Lechler Ltd

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Tata Steel Projects

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Jasper

Major

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Fives DMS

Fives Stein

IRM Group

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CMI UVK GmbH  
Delta Brands Inc (US)  
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Machinery International Corp  
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JSC  
Fives Bronx  
Fives Bronx Inc  
Fives Bronx Ltd  
Galaxie Corporation  
HE Phipps Co Inc  
Machinery International Corp  
Reed Machinery  
Trueforge Global Machinery Corp.

### **T40 - HF Mills**

Arcelor Mittal  
Electrostral Heavy Engineering Works  
JSC  
Galaxie Corporation  
M+M Greaves (Machinery)  
Reed Machinery  
Trueforge Global Machinery Corp.

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Division  
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Electrostral Heavy Engineering Works  
JSC  
Friedrich Kocks GmbH & Co KG  
Trueforge Global Machinery Corp.  
Walzen Irle GmbH

### **T80 - Mannesmann Mills**

Danieli & C. Officine Meccaniche  
Spa  
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JSC

Fives Bronx Ltd  
Machinery International Corp  
Trueforge Global Machinery Corp.  
Walzen Irle GmbH

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Walzen Irle GmbH  
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Walzen Irle GmbH

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JSC  
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Uzinexport SA

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Canamar Technologies Inc  
CMI UVK GmbH  
Cone Drive Textron  
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Spa

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GENERAL SERVICES

BY-PRODUCTS PROCESSING ..... 69  
 CONSUMABLES ..... 69  
 ENERGY ..... 69  
 ENGINEERING ..... 69  
 ENVIRONMENTAL CONTROL ..... 70  
 FINANCIAL SERVICES ..... 71  
 HANDLING ..... 71  
 LABORATORY EQUIPMENT & TESTING ..... 74  
 MACHINERY & PLANT ENGINEERING ..... 74

MACHINERY & PLANT ENGINEERING EQUIPMENT ... 76  
 MARKET INSTITUTIONS ..... 76  
 MEASUREMENT CONTROL & INSTRUMENTATION ... 76  
 POWER TRANSMISSIONS ..... 78  
 REFRACTORIES ..... 78  
 SAFETY EQUIPMENT ..... 80  
 SERVICE CENTRES ..... 80  
 STOCKHOLDING EQUIPMENT ..... 80  
 TECHNICAL INSTITUTIONS ..... 81

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Uzinexport SA  
 VVN Steel Solutions GmbH  
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 Beda Oxygentechnik GmbH  
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SKF (U.K.) Limited  
Tenoa HYL  
VWN Steel Solutions GmbH

## E310 - Water Services

Air Products Europe  
CH2M Hill  
Drennan (Shanghai) Company Ltd  
Hatch Ltd  
M.N. Dastur & Company (P) Ltd

## ENVIRONMENTAL CONTROL

### E400 - Acid Recovery Equipment

Anguil Environmental Systems, Inc  
E410 - Baghouses  
Canamar Technologies Inc  
Danieli & C. Officine Meccaniche Spa

Nucsafe  
Ventilatorenfabrik Oelde GmbH

### E420 - Cyclones

Canamar Technologies Inc  
Carter Environmental Engineers Ltd  
Dango & Dienenthal Maschinenbau GmbH

Danieli & C. Officine Meccaniche Spa

Paul Wurth SA  
Ventilatorenfabrik Oelde GmbH

### E430 - Dry Electrostatic Precipitators

Carter Environmental Engineers Ltd  
Sohar Steel L.L.C  
Ventilatorenfabrik Oelde GmbH

### E450 - Filtration Equipment

Anguil Environmental Systems, Inc  
Canamar Technologies Inc  
Carter Environmental Engineers Ltd  
Clyde Materials Handling  
Dango & Dienenthal Maschinenbau GmbH

Danieli & C. Officine Meccaniche Spa

Filtration Services Ltd  
Fives DMS  
Goudsmit Magnetic Systems BV  
Paul Wurth SA

Steinert Elektromagnetbau GmbH  
Ventilatorenfabrik Oelde GmbH

### E460 - Fume Extraction

Anguil Environmental Systems, Inc  
BSE Badische Stahl-Engineering GmbH

Carter Environmental Engineers Ltd  
Danieli & C. Officine Meccaniche Spa

Fives Stein  
Ventilatorenfabrik Oelde GmbH

### E470 - Gas Cleaning Plant

Carter Environmental Engineers Ltd  
Danieli & C. Officine Meccaniche Spa

Danieli Corus  
M.N. Dastur & Company (P) Ltd  
Major

Paul Wurth SA  
Ventilatorenfabrik Oelde GmbH

### E480 - Health & Safety

A.J. Charnaud & Co (PTY) Ltd  
Association for Iron & Steel Technology (AIST)

Lankhorst Mouldings bv  
Tenoa Goodfellow  
Thermal Ceramics

### E490 - HVAC Systems

Control Techniques UK - Telford  
Lintern Corp  
M.N. Dastur & Company (P) Ltd

### E500 - Noise Control

BSE Badische Stahl-Engineering GmbH  
Danieli & C. Officine Meccaniche Spa

Ventilatorenfabrik Oelde GmbH

### E510 - Venturi Scrubbers

Anguil Environmental Systems, Inc  
Carter Environmental Engineers Ltd  
Danieli & C. Officine Meccaniche Spa

Paul Wurth SA

Ventilatorenfabrik Oelde GmbH

### E520 - Water Pollution Control Equipment

Carter Environmental Engineers Ltd



Dango & Dienenthal Maschinenbau GmbH  
 M.N. Dastur & Company (P) Ltd  
 Panalytical BV  
 Spectro Analytical Instruments GmbH  
**E530 - Wet Electrostatic Precipitators**  
 Carter Environmental Engineers Ltd

**FINANCIAL SERVICES**

**F200 - Business Planning**  
 EuroStrategy Consultants  
 Metals Consulting International Ltd  
 PCI Systems Limited  
**F210 - Conventional Trading**  
 Stemcor  
**F220 - Disposals & Valuations**  
 EuroStrategy Consultants  
 Metals Consulting International Ltd  
**F230 - E-Com Procurement**  
 MEstee.com  
**F235 - E-Com Steel Trading**  
 MEstee.com  
 Stemcor  
**F240 - Financial Planning**  
 EuroStrategy Consultants

Metals Consulting International Ltd  
 Stemcor  
**F250 - Insurance Underwriters**  
**F270 - Market & Sales Forecasting**  
 EuroStrategy Consultants  
 M.N. Dastur & Company (P) Ltd  
 Metals Consulting International Ltd  
 PCI Systems Limited  
**F280 - Market Consultants**  
 EuroStrategy Consultants  
 Fortis  
 Metals Consulting International Ltd  
 VWN Steel Solutions GmbH  
**F290 - Market Planning**  
 EuroStrategy Consultants  
 Metals Consulting International Ltd  
**F300 - Merchant Banks**  
 Fortis  
**F320 - Production & Inventory Planning**  
 M.N. Dastur & Company (P) Ltd  
 PCI Systems Limited

**HANDLING**

**H200 - Automatic Guided Vehicles**  
 KAMAG Transporttechnik GmbH & Co KG  
 Kasto Maschinenbau GmbH & Co KG  
 Scheuerle Fahrzeugfabrik GmbH

**H210 - Barcoding**  
 IML Labels & Systems Ltd  
**H220 - Billet Handling**  
 ABB Crane Systems  
 Advanced Machine & Engineering Co  
 BRAUN Maschinenfabrik GmbH  
 Bushman AvonTec - Canada  
 Bushman AvonTec - USA  
 Combilift Ltd  
 Couzens Storage Solutions  
 Danieli & C. Officine Meccaniche Spa  
 Demag Cranes & Components Ltd  
 Downs Crane & Hoist Co Inc  
 Gesco mbH  
 Hubtex Maschinenbau GmbH & Co KG  
 ISIK Engineering Co. Ltd  
 KAMAG Transporttechnik GmbH & Co KG  
 Kasto Ltd  
 Kasto Maschinenbau GmbH & Co KG  
 Kress Corporation  
 Moduloc Controls Systems Ltd  
 Plakoma GmbH  
 SES Engineering  
 Techlifter Kft  
 Technical Weighing Services Inc  
**H230 - Bulk Solids Handling**  
 Aumund Foerdertechnik GmbH  
 Bushman AvonTec - Canada

Bushman AvonTec - USA  
 Canamar Technologies Inc  
 Claudius Peters Projects GmbH  
 Clyde Materials Handling  
 Demag Cranes & Components Ltd  
 Demag Cranes and Components  
 Hubtex Maschinenbau GmbH & Co KG  
 Kalenborn Kalprotect GmbH & Co Ltd  
 KAMAG Transporttechnik GmbH & Co KG  
 Kasto Ltd  
 Kirow Ardelit GmbH  
 Kress Corporation  
 LASE GmbH Industrielle Lasertechnik  
 M.J. Maillis UK Ltd  
 M.N. Dastur & Company (P) Ltd  
 Schenck Process GmbH  
**H240 - Bundling & Strapping**  
 Bushman AvonTec - Canada  
 Danieli & C. Officine Meccaniche Spa  
 HPL-Neugnadenfelder Maschinenfabrik GmbH  
 M.J. Maillis UK Ltd  
 Mondri Coating GmbH  
 Plakoma GmbH  
 SES Engineering  
**H250 - Coil Handling**  
 ABB Crane Systems  
 Acciaieria Arvedi Spa



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## CLASSIFIED LISTINGS

Bradbury International UK Ltd  
Bronx Engineering Ltd  
Bushman AvonTec - Canada  
Bushman AvonTec - USA  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Danieli & C. Officine Meccaniche  
Spa  
Demag Cranes & Components Ltd  
Demag Cranes and Components  
Downs Crane & Hoist Co Inc  
Gesco mbH  
GIA Industri Ab  
Guild International  
HPL-Neugnadenfelder  
Maschinenfabrik GmbH  
Hubtex Maschinenbau GmbH & Co  
KG  
KAMAG Transporttechnik GmbH &  
Co KG  
Konecranes UK Industrial Crane  
Division  
Kress Corporation  
Lankhorst Mouldings bv  
Lankhorst Recycled Products UK  
Ltd  
LASE GmbH Industrielle  
Lasertechnik  
Moduloc Controls Systems Ltd  
Pinard Enterprises  
Schenck Process GmbH  
Scheuerle Fahrzeugfabrik GmbH  
SES Engineering  
Techlifter Kft  
Technical Weighing Services Inc

Vulcan Engineering Co.  
**H260 - Conveyor Rolls**  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Consolidated Engineering Company  
Duraloy Technologies Inc  
SES Engineering  
STG Holdings  
Vulcan Engineering Co.  
**H270 - Conveyors**  
Addison Saws Ltd  
Advanced Machine & Engineering  
Co  
Aumund Foerdertechnik GmbH  
BRAUN Maschinenfabrik GmbH  
Bushman AvonTec - Canada  
Bushman AvonTec - USA  
BWG Bergwerk-und Walzwerk-  
Maschinenbau GmbH  
Clyde Materials Handling  
Danieli & C. Officine Meccaniche  
Spa  
David Brown Engineering  
Goudsmit Magnetic Systems BV  
HPL-Neugnadenfelder  
Maschinenfabrik GmbH  
Iprolam S.A.  
Kasto Ltd  
M.N. Dastur & Company (P) Ltd  
Magnetic Analysis Corporation  
Plakoma GmbH  
Prosaw Ltd  
Schenck Process GmbH  
SES Engineering  
STG Holdings

Vulcan Engineering Co.  
**H280 - EOT Cranes**  
ABB Crane Systems  
Association For Iron & Steel  
Technology (AIST)  
Danieli & C. Officine Meccaniche  
Spa  
Demag Cranes & Components Ltd  
Downs Crane & Hoist Co Inc  
ISIK Engineering Co. Ltd  
Konecranes UK Industrial Crane  
Division  
Revas Technologies SpA  
**H290 - Fork Lift Trucks**  
Combilift Ltd  
Drennan (Shanghai) Company Ltd  
Hubtex Maschinenbau GmbH & Co  
KG  
KAMAG Transporttechnik GmbH &  
Co KG  
Kress Corporation  
STG Holdings  
**H300 - Hot Metal  
Transfer**  
ABB Crane Systems  
Aumund Foerdertechnik GmbH  
Bushman AvonTec - Canada  
Bushman AvonTec - USA  
Demag Cranes & Components Ltd  
GIA Industri Ab  
ISIK Engineering Co. Ltd  
KAMAG Transporttechnik GmbH &  
Co KG  
Kirow Ardelt GmbH  
Kress Corporation

LASE GmbH Industrielle  
Lasertechnik  
M.N. Dastur & Company (P) Ltd  
Moduloc Controls Systems Ltd  
Plakoma GmbH  
Schenck Process GmbH  
Scheuerle Fahrzeugfabrik GmbH  
SES Engineering  
Technical Weighing Services Inc  
**H310 - Label Design  
Software**  
IML Labels & Systems Ltd  
**H320 - Labels**  
IML Labels & Systems Ltd  
Sping Ernest Dipling  
**H330 - Marking &  
Tracking**  
Durable Mecco  
Gesco mbH  
IML Labels & Systems Ltd  
Infosight Corporation  
Kasto Maschinenbau GmbH & Co  
KG  
LASE GmbH Industrielle  
Lasertechnik  
Magnetic Analysis Corporation  
MNI UK Ltd (Formerly Numtec Ltd)  
Moduloc Controls Systems Ltd  
Pannier Corp  
S.T.S. Services S.R.L.  
Unipersonale  
Sping Ernest Dipling  
**H340 - Metal Tags**  
IML Labels & Systems Ltd



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## CLASSIFIED LISTINGS

### H350 - Plastic Badging

IML Labels & Systems Ltd

### H360 - Rail Vehicles

Canamar Technologies Inc  
Dango & Dienenthal Maschinenbau GmbH  
Hubtex Maschinenbau GmbH & Co KG

ISIK Engineering Co. Ltd  
SES Engineering

Vulcan Engineering Co.

### H370 - Robots

Canamar Technologies Inc  
Dango & Dienenthal Maschinenbau GmbH

Ergolift

Kasto Ltd

Kasto Maschinenbau GmbH & Co KG

M.J. Maillis UK Ltd

Osterwalder AG

Vulcan Engineering Co.

Zwick GmbH & Co KG

### H380 - Roller Tables

Addison Saws Ltd

BRAUN Maschinenfabrik GmbH

Bushman AvonTec - Canada

Butech Bliss

Danieli & C. Officine Meccaniche Spa

HPL-Neugnadenfelder Maschinenfabrik GmbH

Iprolam S.A.

Kasto Ltd

LASE GmbH Industrielle Lasertechnik

Plakoma GmbH

ProRAW Ltd

Schenck Process GmbH

SES Engineering

Vulcan Engineering Co.

Wellman Thermal Technologies Ltd

Woodings Industrial Corporation

### H390 - Scheduling Software

Gesco mbH

Kasto Maschinenbau GmbH & Co KG

PCI Systems Limited

Quad Infotech Inc

### H400 - Self-adhesive Labels

IML Labels & Systems Ltd

### H410 - Sheet Pack Handling

Bushman AvonTec - Canada

Bushman AvonTec - USA

Downs Crane & Hoist Co Inc

Goudsmit Magnetic Systems BV

Hubtex Maschinenbau GmbH & Co KG

Kasto Ltd

Mondi Coating GmbH

Pinard Enterprises

### H420 - Slab Handling

ABB Crane Systems

Advanced Machine & Engineering Co

BRAUN Maschinenfabrik GmbH

Bushman AvonTec - Canada

Bushman AvonTec - USA

Danieli & C. Officine Meccaniche

Spa

Downs Crane & Hoist Co Inc

Gesco mbH

ISIK Engineering Co. Ltd

KAMAG Transporttechnik GmbH & Co KG

Kasto Ltd

Kasto Maschinenbau GmbH & Co KG

Kirow Ardelt GmbH

Kress Corporation

LASE GmbH Industrielle

Lasertechnik

Moduloc Controls Systems Ltd

Plakoma GmbH

Revas Technologies SpA

Schenck Process GmbH

Scheuerle Fahrzeugfabrik GmbH

SES Engineering

Techlifter Kft

Technical Weighing Services Inc

TMEIC

### H430 - Stockyard Plant

Aumund Foerdertechnik GmbH

Claudius Peters Projects GmbH

Kasto Ltd

Pinard Enterprises

### H440 - Storage Systems For Coils

Bushman AvonTec - Canada

Kasto Ltd

Lankhorst Mouldings bv

Lankhorst Recycled Products UK Ltd

Pinard Enterprises

Vulcan Engineering Co.

### H450 - Tags

IML Labels & Systems Ltd

### H460 - Thermal Transfer Printers

IML Labels & Systems Ltd

IML Labels & Systems Ltd

### H470 - Transport Systems For Coils

Bushman AvonTec - Canada

Bushman AvonTec - USA

Iprolam S.A.

KAMAG Transporttechnik GmbH & Co KG

Kasto Ltd

Kirow Ardelt GmbH

Lankhorst Mouldings bv

Scheuerle Fahrzeugfabrik GmbH

Vulcan Engineering Co.

### H480 - Tyred Vehicles

Dango & Dienenthal Maschinenbau GmbH

GIA Industri Ab

Hubtex Maschinenbau GmbH & Co KG

KAMAG Transporttechnik GmbH & Co KG

Kirow Ardelt GmbH

Kress Corporation

Scheuerle Fahrzeugfabrik GmbH

### H490 - Weighing Equipment

Bushman AvonTec - Canada

Bushman AvonTec - USA

Schenck Process GmbH

Technical Weighing Services Inc

## LABORATORY EQUIPMENT & TESTING

### L10 - Analytical Instrumentation

Bruker AXS GmbH

Dr Brockhaus Messtechnik GmbH & Co KG

Dynamic Systems Inc

Electronic Development Labs, Inc

Horiba Scientific

London & Scandinavian Analytical Services - LSM-Analytical Services

M.N. Dastur & Company (P) Ltd

NuSAFE

Panalytical BV

Panalytical Ltd

PhoenixTM Ltd

Precimeter Control AB

Scantron

Spectro Analytical Instruments GmbH

Systech Illinois (Formerly Systech Instruments Ltd)

### L20 - Certified Reference Materials

Dr Brockhaus Messtechnik GmbH & Co KG

Dynamic Systems Inc

Electronic Development Labs, Inc

NDT Equipment Services Ltd

Panalytical BV

Zwick GmbH & Co KG

### L30 - Gas Analysers Bruker AXS GmbH

NDT Equipment Services Ltd

Systech Illinois (Formerly Systech Instruments Ltd)

VTI Valtronics Inc

### L40 - Hardness Testers & Machines

Benetec Ltd

Dynamic Systems Inc

Hatch Technologies Ltd

Innoval Technology Ltd

NDT Equipment Services Ltd

Zwick GmbH & Co KG

Zwick Testing Machines Limited

### L50 - Mechanical Testing

Dynamic Systems Inc

Fives Brox Ltd

Erichsen GmbH & Co KG

Hatch Technologies Ltd

Pearson Panke Limited

Zwick GmbH & Co KG

Zwick Testing Machines Limited

### L60 - Metallographic Preparation

Benetec Ltd

Hatch Technologies Ltd

Innoval Technology Ltd

### L70 - Metrology

Beta LaserMike

Dr Brockhaus Messtechnik GmbH & Co KG

Dynamic Systems Inc

Electronic Development Labs, Inc

Erichsen GmbH & Co KG

NDT Equipment Services Ltd

Pearson Panke Limited

Polytec GmbH

Scantron

### L80 - NDT

Advanced NDT Limited

Bruker AXS GmbH

M.N. Dastur & Company (P) Ltd

Magnetic Analysis Corporation

NDT Equipment Services Ltd

Olympus Industrial

Sarclad Ltd

Zumbach Electronic AG

### L90 - Service & Calibration

Dr Brockhaus Messtechnik GmbH & Co KG

Dynamic Systems Inc

Electronic Development Labs, Inc

Erichsen GmbH & Co KG

Global Gauge Corporation

Land Instruments International

NDT Equipment Services Ltd

Pearson Panke Limited

Scantron

Systech Illinois (Formerly Systech Instruments Ltd)

Zwick GmbH & Co KG

Zwick Testing Machines Limited

### L100 - Sheet Metal Testing

Dr Brockhaus Messtechnik GmbH & Co KG

Dynamic Systems Inc

Erichsen GmbH & Co KG

London & Scandinavian Analytical Services - LSM-Analytical Services

Pearson Panke Limited

Zwick GmbH & Co KG

Zwick Testing Machines Limited

## MACHINERY AND PLANT ENGINEERING

### M10 - Control Armatures Elster GmbH

Voith Turbo GmbH & Co KG

### M20 - Control Equipment, Complete

Angellis Group AB

BWG Bergwerk-und Walzwerk-

Maschinenbau GmbH

Voith Turbo GmbH & Co KG

### M30 - Couplings, Mechanical & Hydrodynamic

Voith Turbo GmbH & Co KG

### M40 - Driving Technology Engineering

Voith Turbo GmbH & Co KG

### M50 - Electrical-Hydraulic Activators

Voith Turbo GmbH & Co KG

### M60 - Flanged Couplings

Voith Turbo GmbH & Co KG

### M70 - Hirth Serration

Voith Turbo GmbH & Co KG

### M80 - Safety Couplings

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### M90 - Servomotors

Control Techniques UK - Telfor

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# CLASSIFIED LISTINGS

Voith Turbo GmbH & Co KG  
**M100 - Shaft Couplings (Rigid)**

Voith Turbo GmbH & Co KG  
**M110 - Special Lubricants**

Condat Industries  
Schaeffler (UK) Ltd  
Voith Turbo GmbH & Co KG  
**M120 - Torque Limiting**  
FMS Force Measurement System AG

Schaeffler (UK) Ltd  
Voith Turbo GmbH & Co KG  
**M130 - Universal-Joint Shafts**

Voith Turbo GmbH & Co KG

## MACHINERY AND PLANT EQUIPMENT

**M200 - Acid Proof Equipment**

E Braude (London) Ltd  
UHT Uvan Hagfors Teknologi

**M210 - Acid Temperature Control**

E Braude (London) Ltd

**M220 - Chemical Equipment**

E Braude (London) Ltd

**M230 - Chemical Pumps**

E Braude (London) Ltd

**M240 - Heating Equipment for Pickling**

E Braude (London) Ltd

## MARKET INSTITUTIONS

**M300 - Trade Bodies Engin Paslanmaz**

HBI Association Ltd  
International Iron Metallics Association Limited (IIMA)

## MEASUREMENT, CONTROL & INSTRUMENTATION

**M350 - Automatic Gauge Control**

ABB AB Force Measurement  
AMEPA GmbH  
AMI GE  
Ansaldo Sistemi Industriali S.p.A.  
AST/3T Accurate Sensors Technologies  
Beta LaserMike  
Butech Bliss  
Danieli & C. Officine Meccaniche Spa  
Dr. Brockhaus Messtechnik GmbH & Co KG  
Endress + Hauser Instruments International AG  
Fives DMS  
FMS Force Measurement System AG  
George Kelk Corporation  
Gesco mbH  
Innoval Technology Ltd

IRM Group  
M.N. Dastur & Company (P) Ltd  
Moduloc Controls Systems Ltd  
Precimeter Control AB  
Scantron  
Technical Weighing Services Inc  
Thermo Fisher Scientific  
TMEIC

**M360 - BF Control**

AMEPA GmbH  
AMI GE  
Angellis Group AB  
Claudius Peters Projects GmbH  
Danieli & C. Officine Meccaniche Spa

Danieli Corus  
Endress + Hauser Instruments International AG

Paul Wurth SA  
PSI Business Technology for Industries GmbH

Siemens VAI Metals Technologies Ltd  
Woodings Industrial Corporation

**M370 - Check Weighing**

Global Gauge Corporation  
Inspectorate International Ltd  
S.T.S. Services S.R.L. Unipersonale

**M380 - Computer Control Systems**

AMEPA GmbH  
AMI GE  
Angellis Group AB  
Ansaldo Sistemi Industriali S.p.A.  
Automazioni Industriali Capitanio  
Avtron Industrial Automation Inc  
Baytek Systems  
Claudius Peters Projects GmbH  
Concast AG  
Danieli & C. Officine Meccaniche Spa

Eurotherm  
Gesco mbH  
Hypertherm Europe BV  
ISRA Parsytec Asia Pacific Co., Ltd  
ISRA Parsytec GmbH  
ISRA Surface Vision GmbH  
ISRA Surface Vision Inc  
ISRA Vision (Shanghai) Corp., Ltd  
ISRA Vision AG  
PCI Systems Limited  
PhoenixTM Ltd  
Precimeter Control AB

PSI Business Technology for Industries GmbH

Quintiq  
S.T.S. Services S.R.L. Unipersonale  
Sentech Precimeter Inc  
STS S.R.L.  
Tenova Goodfellow  
TMEIC  
Uzinexport SA  
Zwick GmbH & Co KG

**M390 - Continuous Casting Control**

AMEPA GmbH  
American Sensors Corp  
AMI GE  
Angellis Group AB  
Arcelor Mittal

AST/3T Accurate Sensors Technologies  
Automazioni Industriali Capitanio  
Baytek Systems  
Beta LaserMike  
Concast AG  
Danieli & C. Officine Meccaniche Spa  
Eurotherm  
George Kelk Corporation  
Gesco mbH  
Joneja Bright Steels Pvt Ltd  
MTS Sensor Technology GmbH & Co KG  
Precimeter Control AB

PSI Business Technology for Industries GmbH

Quintiq  
S.T.S. Services S.R.L. Unipersonale  
Schenck Process GmbH  
Sentech Precimeter Inc  
Sert Metal  
STS S.R.L.  
VÜHŽ

**M400 - Emission Monitoring**

Automazioni Industriali Capitanio  
Claudius Peters Projects GmbH  
Concast AG  
Land Instruments International  
NuSAFE  
Schaeffler (UK) Ltd

**M410 - Flatness Measuring Systems**

ABB AB Force Measurement  
AST/3T Accurate Sensors Technologies  
Danieli & C. Officine Meccaniche Spa  
Fives DMS

Innoval Technology Ltd  
IRM Group  
ISRA Surface Vision GmbH

LAP GmbH Laser Applikationen

LASE GmbH Industrielle Lasertechnik  
Moduloc Controls Systems Ltd  
MTS Sensor Technology GmbH & Co KG

Polytec GmbH  
Scantron  
Thermo Fisher Scientific  
Thermo Scientific

**M420 - Flow Meters**

AMEPA GmbH  
AST/3T Accurate Sensors Technologies  
Claudius Peters Projects GmbH  
Elster GmbH  
Endress + Hauser Instruments International AG  
Kromschroder (UK) Ltd  
Lee-Dickens Ltd  
Schenck Process GmbH

**M430 - Gauges**

ABB AB Force Measurement  
Acciaieria Arvedi Spa  
Beta LaserMike  
Danieli & C. Officine Meccaniche Spa

Elster GmbH  
EMG Automation GmbH  
Endress + Hauser Instruments International AG  
Fives DMS

George Kelk Corporation

Gesco mbH  
Global Gauge Corporation  
IRM Group  
Kromschroder (UK) Ltd

LAP GmbH Laser Applikationen

Magnetic Analysis Corporation  
Moduloc Controls Systems Ltd  
MTS Sensor Technology GmbH & Co KG

Palmer Wahl Instrumentation Group  
Polytec GmbH  
Precimeter Control AB  
Scantron  
Schenck Process GmbH  
Sonatest Ltd  
Thermo Fisher Scientific  
Thermo Scientific  
Zumbach Electronic AG

**M440 - Hydraulic & Electronics Control**

Ansaldo Sistemi Industriali S.p.A.  
Drennan (Shanghai) Company Ltd  
Gesco mbH

Oilgear Towler  
Voith Turbo GmbH & Co KG

**M450 - Mill Control**

American Sensors Corp  
AMI GE  
Ansaldo Sistemi Industriali S.p.A.  
AST/3T Accurate Sensors Technologies

Automazioni Industriali Capitanio  
Avtron Industrial Automation Inc  
Baytek Systems  
Butech Bliss

Claudius Peters Projects GmbH  
Danieli & C. Officine Meccaniche Spa

Endress + Hauser Instruments International AG

Friedrich Kocks GmbH & Co KG  
Gesco mbH

Moduloc Controls Systems Ltd  
MTS Sensor Technology GmbH & Co KG

PSI Business Technology for Industries GmbH

Quintiq  
S.T.S. Services S.R.L. Unipersonale  
Technical Weighing Services Inc  
TMEIC

**M460 - Monitoring**

American Sensors Corp  
Angellis Group AB  
Ansaldo Sistemi Industriali S.p.A.  
Automazioni Industriali Capitanio  
Avtron Industrial Automation Inc  
Beta LaserMike  
Claudius Peters Projects GmbH  
Endress + Hauser Instruments International AG  
Eurotherm

## CLASSIFIED LISTINGS

FMS Force Measurement System AG  
 Fosbel Inc  
 Gescob mbH  
 Horsburgh & Scott Co  
 ISRA Parsytec Asia Pacific Co., Ltd  
 ISRA Parsytec GmbH  
 ISRA Surface Vision GmbH  
 ISRA Surface Vision Inc  
 ISRA Vision (Shanghai) Corp., Ltd  
 ISRA Vision AG  
 Joslyn Hi-Voltage Corp  
 Lee-Dickens Ltd  
 Moduloc Controls Systems Ltd  
 MTS Sensor Technology GmbH & Co KG  
 Nucsafes  
 Palmer Wahl Instrumentation Group  
 Precimeter Control AB

### PSI Business Technology for Industries GmbH

Raytek GmbH  
 Raytek UK Ltd  
 S.T.S. Services S.R.L.  
 Unipersonale  
 Sarclad Ltd  
 Scantron  
 Schaeffler (UK) Ltd  
 Schenck Process GmbH  
 SKF (U.K.) Limited  
 Thermo Fisher Scientific  
 TMEIC  
 VTI Valtronics Inc

### M470 - On-Line Inspection

ABB Oy (Process Industry)  
 Advanced NDT Limited  
 AMEPA GmbH  
 Arck Sensor  
 Beta LaserMike  
 Claudius Peters Projects GmbH  
 Danieli & C. Officine Meccaniche Spa  
 Dr Brockhaus Messtechnik GmbH & Co KG  
 Fives Bronx Ltd  
 Fosbel Inc

### George Kelk Corporation

Gescob mbH  
 ISRA Parsytec Asia Pacific Co., Ltd  
 ISRA Parsytec GmbH  
 ISRA Surface Vision GmbH  
 ISRA Surface Vision Inc  
 ISRA Vision (Shanghai) Corp., Ltd  
 ISRA Vision AG  
 Magnetic Analysis Corporation  
 Moduloc Controls Systems Ltd  
 Nucsafes  
 Pinard Enterprises  
 Precimeter Control AB

### PSI Business Technology for Industries GmbH

Raytek GmbH  
 Sarclad Ltd  
 Scantron  
 SKF (U.K.) Limited  
 Sonatest Ltd  
 Systech Illinois (Formerly Systech Instruments Ltd)

Thermo Fisher Scientific  
 Zumbach Electronic AG  
**M480 - On-Line Measurement**  
 ABB AB Force Measurement  
 ABB Oy (Process Industry)  
 Advanced NDT Limited  
 AMEPA GmbH  
 American Sensors Corp  
 Angellis Group AB  
 Arck Sensor  
 AST/3T Accurate Sensors Technologies  
 Beta LaserMike  
 Bruker AXS GmbH  
 Claudius Peters Projects GmbH  
 Danieli & C. Officine Meccaniche Spa  
 Dr Brockhaus Messtechnik GmbH & Co KG  
 EMG Automation GmbH  
 Endress + Hauser Instruments International AG  
 Fives Bronx Ltd  
 FMS Force Measurement System AG

### George Kelk Corporation

Gescob mbH  
 Global Gauge Corporation  
 Ita Inox Spa  
 IRM Group  
 ISRA Parsytec Asia Pacific Co., Ltd  
 ISRA Parsytec GmbH  
 ISRA Surface Vision GmbH  
 ISRA Surface Vision Inc  
 ISRA Vision (Shanghai) Corp., Ltd  
 ISRA Vision AG

### LAP GmbH Laser Applikationen

LASE GmbH Industrielle Lasertechnik  
 Limab  
 Moduloc Controls Systems Ltd  
 Nucsafes  
 Pinard Enterprises  
 Polytec GmbH  
 Precimeter Control AB

### PSI Business Technology for Industries GmbH

Raytek GmbH  
 Raytek UK Ltd  
 Sarclad Ltd  
 Scantron  
 Schaeffler (UK) Ltd  
 Sonatest Ltd  
 Systech Illinois (Formerly Systech Instruments Ltd)  
 Thermo Fisher Scientific  
 Thermo Scientific  
 Voith Turbo GmbH & Co KG  
 Zumbach Electronic AG  
 Zwick GmbH & Co KG  
**M490 - Process Control Systems**  
 AMI GE  
 American Sensors Corp  
 Angellis Group AB  
 Ansaldo Sistemi Industriali S.p.A.  
 Association For Iron & Steel Technology (AIST)  
 Automazioni Industriali Capitano



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# CLASSIFIED LISTINGS

Avtron Industrial Automation Inc  
Baytek Systems  
Beta LaserMike  
Can-Eng Furnaces International Limited  
Concast AG  
Danieli & C. Officine Meccaniche Spa  
Dynamic Systems Inc  
EMG Automation GmbH  
Endress + Hauser Instruments International AG  
Eurotherm

## Fives North American Combustion Inc

FMS Force Measurement System AG  
Gesco mbH  
Hypertherm Europe BV  
Iprolam S.A.  
ISRA Parsytec Asia Pacific Co., Ltd  
ISRA Parsytec GmbH  
ISRA Surface Vision GmbH  
ISRA Surface Vision Inc  
ISRA Vision (Shanghai) Corp., Ltd  
ISRA Vision AG  
Kromschroder (UK) Ltd  
Lee-Dickens Ltd  
Major  
NuSAFE  
PCI Systems Limited  
Pfeiffer Vacuum GmbH

## PSI Business Technology for Industries GmbH

Pulsar Process Measurement Ltd  
Quintiq  
Raytek GmbH  
Raytek UK Ltd  
S.T.S. Services S.R.L. Unipersonale  
Schenck Process GmbH  
Sentech Precimeter Inc  
Sert Metal  
SMS Meer SPA  
Spectro Analytical Instruments GmbH  
Systech Illinois (Formerly Systech Instruments Ltd)  
TenoVA Goodfellow  
Thermo Fisher Scientific  
Thermo Scientific  
TMEIC  
UHT Uvan Hagfors Teknologj Uzinexport SA  
Voith Turbo GmbH & Co KG  
Wellman Thermal Technologies Ltd  
**M500 - Programmable Controllers**  
AMI GE  
Ansaldo Sistemi Industriali S.p.A.  
Automazioni Industriali Capitanio  
Avtron Industrial Automation Inc  
Eurotherm  
FMS Force Measurement System AG  
Hypertherm Europe BV  
Precimeter Control AB  
S.T.S. Services S.R.L. Unipersonale

Sentech Precimeter Inc  
TMEIC  
UHT Uvan Hagfors Teknologj Uzinexport SA  
**M510 - Pumps**  
Canamar Technologies Inc  
Drennan (Shanghai) Company Ltd  
E Braude (London) Ltd  
Precimeter Control AB  
Turbosan Turbomachinery Industry  
Voith Turbo GmbH & Co KG  
**M520 - Reheat Furnace Control**

Andritz MAERZ GmbH  
Automazioni Industriali Capitanio  
Danieli & C. Officine Meccaniche Spa  
Endress + Hauser Instruments International AG  
Gesco mbH  
Ircon Inc  
Kromschroder (UK) Ltd  
Raytek UK Ltd  
S.T.S. Services S.R.L. Unipersonale  
SMS Meer SPA

## M530 - Steelmaking Control

AMEPA GmbH  
American Sensors Corp  
AMI GE  
Angellis Group AB  
Automazioni Industriali Capitanio  
Avtron Industrial Automation Inc  
Baytek Systems  
Concast AG  
Danieli & C. Officine Meccaniche Spa  
Danieli Corus  
Dr Brockhaus Messtechnik GmbH & Co KG  
Endress + Hauser Instruments International AG  
Gesco mbH  
Ircon Inc  
ISRA Surface Vision GmbH  
Joneja Bright Steels Pvt Ltd  
MTS Sensor Technology GmbH & Co KG

## PSI Business Technology for Industries GmbH

Quintiq  
Raytek UK Ltd  
S.T.S. Services S.R.L. Unipersonale  
Scantron  
Technical Weighing Services Inc  
TenoVA Goodfellow  
**M540 - Tallying**

## Inspectorate International Ltd

### M550 - Temperature Measurement

American Sensors Corp  
AMETEK Land Inc  
AST/3T Accurate Sensors Technologies  
Automazioni Industriali Capitanio  
BSE Badische Stahl-Engineering GmbH  
Datapaq Limited  
Dynamic Systems Inc

Electronic Development Labs, Inc  
Endress + Hauser Instruments International AG  
Eurotherm  
Fosbel Inc  
Gesco mbH  
Land Instruments International  
Lee-Dickens Ltd  
NDT Equipment Services Ltd  
Palmer Wahl Instrumentation Group  
PhoenixTM Ltd  
Polytec GmbH  
Precimeter Control AB  
Raytek GmbH  
Schaeffler (UK) Ltd  
Spigir Ernest Dipling  
TenoVA Goodfellow  
Zwick GmbH & Co KG  
**M560 - Valves - water/gas/petrochemical**  
Elster GmbH  
Eurotherm

## Fives North American Combustion Inc

Kromschroder (UK) Ltd  
Van Leeuwen Pipe & Tube Group  
Voith Turbo GmbH & Co KG  
Woodings Industrial Corporation  
**M570 - Visual Inspections (Quality Control)**  
Fosbel Inc  
Inspectorate International Ltd

## Power Transmissions

### P10 - Bearings

Horsburgh & Scott Co  
Schaeffler (UK) Ltd

### P20 - Couplings

Horsburgh & Scott Co  
Maina Organi Di Trasmissione S.P.A.

### P30 - Electrical Power Transmissions

Horsburgh & Scott Co  
Lang Machinery Co Inc  
Maina Organi Di Trasmissione S.P.A.

### P40 - Gearboxes

Horsburgh & Scott Co

### P50 - Mechanical Power Transmissions

Horsburgh & Scott Co  
Maina Organi Di Trasmissione S.P.A.

Schaeffler (UK) Ltd

### P60 - Motors

Horsburgh & Scott Co  
Lang Machinery Co Inc  
TDI Group LLC

### P70 - Motor Controls

Horsburgh & Scott Co  
TDI Group LLC

### P80 - Transformers

Horsburgh & Scott Co

## REFRACTORIES

**R1200 - Acid Materials**  
Capital Refractories Limited

DSF Refractories & Minerals Ltd  
E Braude (London) Ltd  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refmin China Co., Limited  
RHI AG  
Togni S/A Materiais Refractorios  
**R1210 - Alumina Materials**  
Ajoy Chemical Industries  
DSF Refractories & Minerals Ltd  
Mayerton Refractories Ltd  
Refmin China Co., Limited

## REFRATECHNIK Steel GmbH

RHI AG  
Togni S/A Materiais Refractorios  
ZIRCAR Refractory Composites Inc

## R1220 - Aluminio Silicate Plants

Capital Refractories Limited  
DSF Refractories & Minerals Ltd  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refmin China Co., Limited  
Togni S/A Materiais Refractorios

## R1230 - Application Machines

Fosbel Inc  
Magnesitas Navarras S.A  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
RHI AG  
Togni S/A Materiais Refractorios  
Velco GmbH

## R1240 - Basic Materials

Ajoy Chemical Industries  
Capital Refractories Limited  
Fosbel Inc  
Graftech International  
Magnesitas Navarras S.A  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refmin China Co., Limited

## REFRATECHNIK Steel GmbH

RHI AG  
Skamol A/S  
Togni S/A Materiais Refractorios  
**R1250 - Brick**  
Capital Refractories Limited  
DSF Refractories & Minerals Ltd  
Dyson TT  
Fosbel Inc  
Graftech International  
Mayerton Refractories Ltd  
Refmin China Co., Limited

## REFRATECHNIK Steel GmbH

RHI AG  
Skamol A/S  
Thermal Ceramics  
Togni S/A Materiais Refractorios  
Wellman Thermal Technologies Ltd  
**R1260 - Ceramic Fibre**  
Capital Refractories Limited  
Fosbel Inc  
Kanthal AB  
Mayerton Refractories Ltd  
Refmin China Co., Limited

## REFRATECHNIK Steel GmbH

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Unifrax Limited



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- Zirconia Crucibles
- Zirconia Sliding Gate Plate Inserts
- Alumina Foundry Nozzles



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# CLASSIFIED LISTINGS

Wellman Thermal Technologies Ltd  
ZIRCAR Refractory Composites Inc  
**R1270 - Clays & Bauxites**

DSF Refractories & Minerals Ltd  
Mayerton Refractories Ltd  
Refrin China Co., Limited  
Togni S/A Materiais Refractorios  
**R1280 - Graphite Based Materials**

Ajoy Chemical Industries  
Capital Refractories Limited  
Danieli Corus  
DCM DECOMetal GmbH  
Graftech International  
JSC "Ukrainsky Grafit"  
Mayerton Refractories Ltd  
Refrin China Co., Limited  
REFRATECHNIK Steel GmbH

RHI AG  
Togni S/A Materiais Refractorios  
**R1290 - Insulating**  
Ajoy Chemical Industries  
Capital Refractories Limited  
Fosbel Inc  
Kanthal AB  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refrin China Co., Limited  
REFRATECHNIK Steel GmbH

Skamol A/S  
Thermal Ceramics  
Togni S/A Materiais Refractorios  
Unifrax Limited

**R1300 - Mixers**  
Mayerton Refractories Ltd  
**R1310 - Monolithic**  
Ajoy Chemical Industries  
Capital Refractories Limited  
DSF Refractories & Minerals Ltd  
Fosbel Inc

Magnesitas Navarras S.A  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refrin China Co., Limited  
REFRATECHNIK Steel GmbH

RHI AG  
Skamol A/S  
Thermal Ceramics  
Togni S/A Materiais Refractorios  
**R1320 - Mortars**  
Capital Refractories Limited  
DSF Refractories & Minerals Ltd  
Graftech International  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refrin China Co., Limited  
REFRATECHNIK Steel GmbH

RHI AG  
Skamol A/S  
Thermal Ceramics  
Togni S/A Materiais Refractorios  
**R1330 - Neutral Refractories**  
Capital Refractories Limited  
DSF Refractories & Minerals Ltd  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refrin China Co., Limited  
REFRATECHNIK Steel GmbH

RHI AG  
Thermal Ceramics  
Togni S/A Materiais Refractorios  
**R1340 - Plastics**

Capital Refractories Limited  
E Braude (London) Ltd  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Togni S/A Materiais Refractorios  
**R1350 - Special Shapes**  
Capital Refractories Limited  
DSF Refractories & Minerals Ltd  
Dyson TT  
Fosbel Inc  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
REFRATECHNIK Steel GmbH

RHI AG  
Skamol A/S  
Thermal Ceramics  
Togni S/A Materiais Refractorios  
**R1360 - Taphole Clays**  
Mayerton Refractories Ltd  
Minerals Technoliges Europe N.V  
Refrin China Co., Limited  
REFRATECHNIK Steel GmbH

Togni S/A Materiais Refractorios  
**R1370 - Wrecking Machines**  
Mayerton Refractories Ltd  
**R1400 - Zirconia Ceramics**  
Dyson TT

## SAFETY EQUIPMENT

**S450 - Alarms**  
ABB Crane Systems  
Systech Illinois (Formerly Systech Instruments Ltd)  
VTI Valtronics Inc  
**S490 - Garments & Helmets**  
Beda Oxygentechnik GmbH  
**S500 - Gas Monitors**  
Land Instruments International  
Systech Illinois (Formerly Systech Instruments Ltd)  
VTI Valtronics Inc

## SERVICE CENTRES

**S550 - Carbon Steel**  
Aakanksha Steel And Alloys  
Edgen Murray  
Pinard Enterprises  
Shenyang Rustproof Packaging Material Co., Ltd  
Stemcor  
STG Holdings  
Van Heyghen Staal  
Van Leeuwen Pipe and Tube Group  
**S560 - Non-Ferrous**  
Danieli Fröhling  
Shenyang Rustproof Packaging Material Co., Ltd  
STG Holdings

**S570 - Stainless Steel**  
Aakanksha Steel And Alloys  
Chia Far Industrial Factory Co  
D. S. Willes (Stainless) Ltd

Danieli Fröhling  
Edgen Murray  
Engin Paslanmaz  
Outokumpu Oyj  
Shenyang Rustproof Packaging Material Co., Ltd  
Stemcor  
STG Holdings  
Van Leeuwen Pipe and Tube Group  
Yieh Corp

## STOCKHOLDING EQUIPMENT

**S600 - Computers**  
Hypertherm Europe BV  
Kasto Ltd  
PCI Systems Limited  
**S610 - Cut-To-Length Lines**  
Addison Saws Ltd  
Bachknives, Division of Hermanite Corp  
Bradbury International UK Ltd  
Bronx Engineering Ltd  
Butech Bliss  
Chia Far Industrial Factory Co  
Couzens Storage Solutions  
Danieli Fröhling  
Heinrich Georg GmbH  
Maschinenfabrik  
Iprolam S.A.  
Kasto Ltd  
Kasto Maschinenbau GmbH & Co KG  
M+M Greaves (Machinery)  
Pearson Panke Limited  
Pinard Enterprises  
Red Bud Industries  
Reed Machinery Ltd  
Stemcor  
STG Holdings  
Ungerer GmbH + Co. KG  
**S620 - Decoilers**  
Bradbury International UK Ltd  
Danieli Fröhling  
Iprolam S.A.  
M+M Greaves (Machinery)  
Pearson Panke Limited  
Pinard Enterprises  
Red Bud Industries  
STG Holdings  
Ungerer GmbH + Co. KG  
**S630 - Felt (slitting lines)**  
Bachknives, Division of Hermanite Corp  
Pinard Enterprises  
**S640 - Hydraulic Drive Systems**  
Drennan (Shanghai) Company Ltd  
Hagglunds Drives Ltd  
Iprolam S.A.  
Osterwalder AG  
**S650 - Laser Cutting**  
Arcelor Mittal  
Hypertherm Europe BV  
**S660 - Laser Welding**  
Ita Inox SpA  
**S670 - Marking**  
Durable Mecco  
Hypertherm Europe BV  
MNI UK Ltd (Formerly Numtec Ltd)  
Pannier Corp  
S+P Samson GmbH  
Sparkonix (India) Pvt Ltd  
**S680 - Motors**  
Hagglunds Drives Ltd  
**S690 - Painting Equipment**  
Leighs Paints  
Pinard Enterprises  
**S700 - Plasma Cutters**  
D. S. Willets (Stainless) Ltd  
Hypertherm Europe BV  
**S710 - Polishing Equipment**  
Zwick Testing Machines Limited  
**S720 - Profiling Machines**  
Kasto Ltd  
Sparkonix (India) Pvt Ltd  
**S730 - Power Units**  
Drennan (Shanghai) Company Ltd  
Global Gauge Corporation  
Hagglunds Drives Ltd  
**S740 - Racking & Storage Systems**  
Couzens Storage Solutions  
Kasto Ltd  
Kasto Maschinenbau GmbH & Co KG  
Lankhorst Mouldings by  
Pinard Enterprises  
**S750 - Saws**  
Addison Saws Ltd  
Asko Inc  
Bachknives, Division of Hermanite Corp  
BRAUN Maschinenfabrik GmbH  
D. S. Willes (Stainless) Ltd  
Framag Industrieanlagenbau GmbH  
Kasto Ltd  
Prosaw Ltd  
Superbolt Ltd  
**S760 - Shears**  
ASKO BV  
Asko Inc  
Bachknives, Division of Hermanite Corp  
Bradbury International UK Ltd  
D. S. Willets (Stainless) Ltd  
Guild International  
Heinrich Georg GmbH  
Maschinenfabrik  
Iprolam S.A.  
Pearson Panke Limited  
Pinard Enterprises  
Red Bud Industries  
Ungerer GmbH + Co. KG  
**S780 - Slitting Lines**  
ASKO BV  
Bachknives, Division of Hermanite Corp  
Bradbury International UK Ltd  
Bronx Engineering Ltd  
Butech Bliss  
Chia Far Industrial Factory Co  
Danieli Fröhling  
Dienes Werke Fur Maschinenteile GmbH & Co KG  
Heinrich Georg GmbH  
Maschinenfabrik

Iprolam S.A.  
 M+M Greaves (Machinery)  
 Pinard Enterprises  
 Red Bud Industries  
 Reed Machinery Ltd  
**S790 - Software**  
 Asko Inc  
 Bachknives, Division of Hermanite Corp  
 Hypertherm Europe BV  
 Kasto Maschinenbau GmbH & Co KG  
 PCI Systems Limited

PSI Business technology For Industries GmbH

Zwick GmbH & Co Kg  
**S800 - Values**  
 Hagglunds Drives Ltd

**TECHNICAL INSTITUTIONS**

**T200 - Contract R&D**

Dynamic Systems Inc  
 Innoval Technologu Ltd

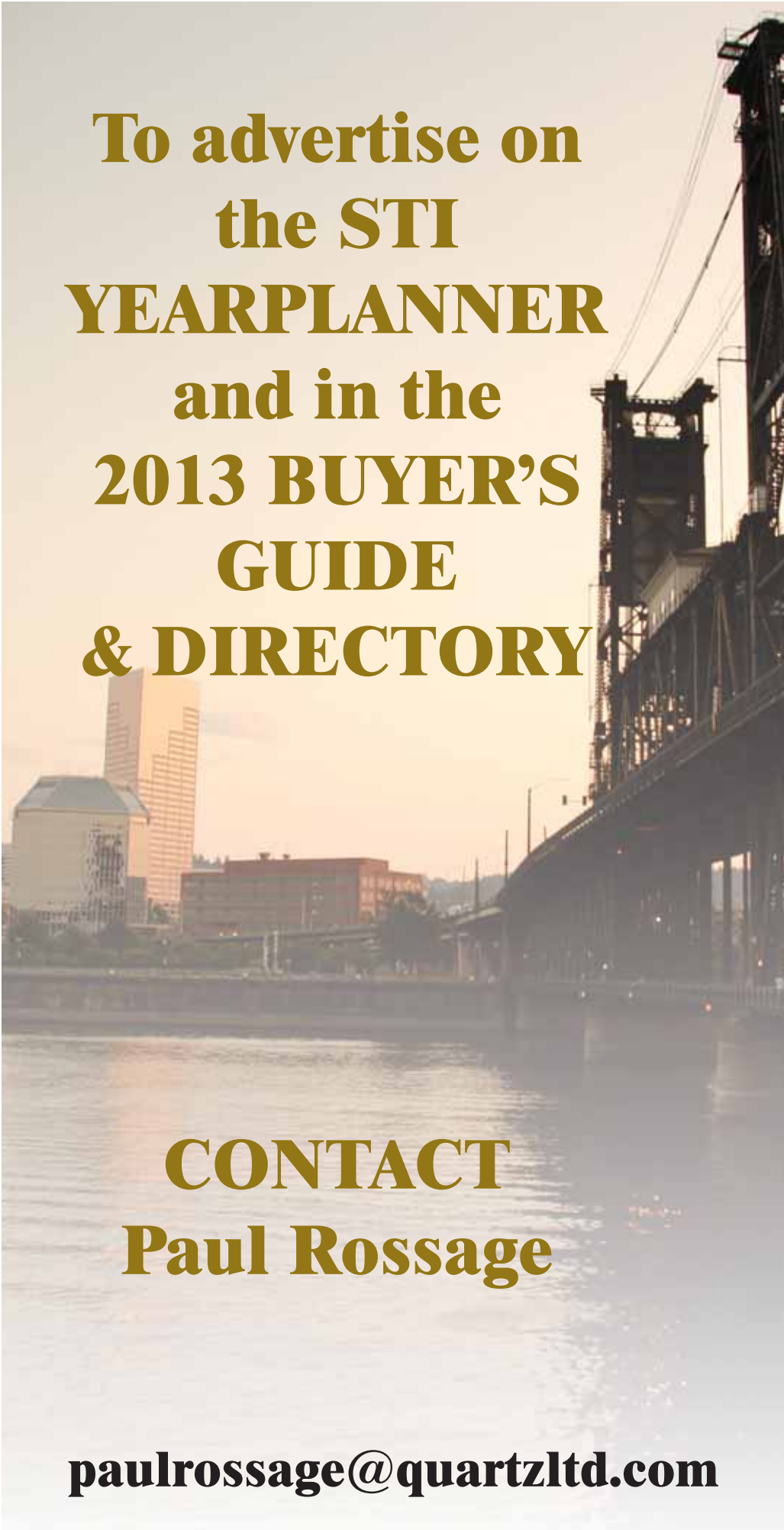
**T210 - International Inst/Assns**

HBI Association Ltd  
 International Iron Metallics Association Limited (IIMA)

**T220 - National Inst/Assns**

The British Association of Non-destructive Testing

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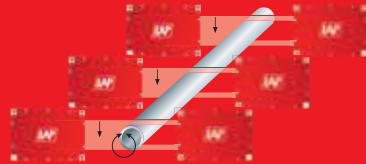
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[THICKNESS]



[DIAMETER]



[STRAIGHTNESS]



[PROFILES]



# COUNTRY LISTINGS

## SECTION 3

### AUSTRALIA

Aismelt Ltd  
Hismelt Corporation  
Major  
Onesteel  
Pinard Enterprises

### AUSTRIA

Aichelin GmbH  
Alteco Aluminiumtechnologie  
Vertriebs- Und Consulting GmbH  
Andritz AG  
Austroplan Austrian Engineering  
GmbH  
Braun Maschinenfabrik GmbH  
DCM Decometal GmbH  
Ebner Industrieofenbau GmbH  
Framag Industrieanlagenbau GmbH  
GE Jenbacher Gas Engines  
Headquarters  
GFM GmbH  
Inteco Special Melting Technologies  
GmbH  
Lenzing Aktiengesellschaft  
Mondi Coating GmbH  
Numtec Anlagenbau GmbH  
RHI AG  
Safin GmbH  
Siemens Vai Metals GmbH & Co

### BELGIUM

Akers Belgium  
Carneuse Group  
Carneuse SA  
Centre De Recherches  
Métallurgiques Crm  
CMI Industry-Groupe Cockerill  
Maintenance & Ingenierie  
Engineered Pressure Systems Int NV  
Esco Transmissions SA  
Europickling NV  
FIB-Services SA  
Heraeus Electro-Nite International NV  
Heubel SA  
Idees  
International Stainless Steel Forum  
IRM Group

Lhoist Division Western Europe  
Limburgse Urethane Castings NV  
Minerals Technologies Europe NV  
Rotary Nozzle International  
Van Heyghen Staal  
World Steel Association (Worldsteel)

### BRAZIL

Combustol Ind E Com Ltda  
Confab Industrial Sa  
Corona Cadinhos E Refratarios Ltda  
Togni S/A Materiais Refratarios

### CANADA

Ajax Magnethermic Canada  
Alcos Machinery Inc  
Bushman Avontec  
Canamar Technologies Inc  
Can-Eng Furnaces International  
Limited  
Clayburn Industries Ltd  
Empco (Canada) Ltd  
Fabris Inc  
Fednav Limited  
**George Kelk Corporation**  
Hardrock Systems  
Hatch Ltd  
Hatch Technologies Ltd  
Heggie, Cochrane, Bray &  
Associates Inc  
Manitex Liftking Ulc  
Mcmaster University  
Metform International  
Quad Infotech Inc  
SGS Lakefield Research Ltd  
Tenova Goodfellow Inc

### CHINA

Advance Technical Products Ltd  
(Shanghai Office)  
Air Products And Chemicals (China)  
Investment Co., Ltd  
Ajax Tocco Magnethermic  
Baoshan Iron & Steel Co Ltd  
Beta Lasermike Asia  
Bloom Combustion Products, Ltd.

Boc (China) Holdings Co Ltd  
China Metallurgical Import & Import  
Shanghai Company  
China United Engineering  
Corporation  
CMPI & CMIS  
Control Techniques China  
Drennan (Shanghai) Company Ltd  
Global Link China Consulting Inc  
Henkel Loctite (China) Co Ltd  
Henkel Surface Technologies China  
Inductotherm Metallurgical  
Equipment Group  
Interfax China  
Isra Vision (Shanghai) Corp., Ltd  
Itochu Shanghai Ltd  
Jiangsu Jiangnan Group  
Jiangyin Xing Cheng Special Steel  
Works Co Ltd  
Jiaxing Cob Bearing Inc  
Julink Engineering Co Ltd  
Kingland Petroleum-Gas Pipeline  
Co Ltd  
Minebea Electronics & Hi-Tech  
Components (Shanghai)  
Peiport Scientific Ltd  
(Shanghai Office)  
Puyang Refractories Group Co Ltd  
Refim China Co., Limited  
Shanghai Parker Surface  
Modification Co Ltd  
Shanghai Santeng Electron Co Ltd  
Shenyang Rustproof Packaging  
Material Co., Ltd  
Steel Times International  
Sunary Auto Teck Ltd  
Tyco Flow Control Hk Ltd

### CZECH REPUBLIC

CKD Export AS  
Trinecke Zelezarny  
Vúhř As  
Zdas As

### DENMARK

Disa Industries A/S  
Hegnemag A/S

Magnemag A/S  
Skamol A/S

### EGYPT

Kandil Steel

### FINLAND

ABB Oy (Process Industry)  
Outokumpu Oyj  
Outotek Oyj  
Rautaruukki Steel  
Senfit Oy

### FRANCE

Air Liquide  
Andrin Sa  
Arck Sensor  
Calderys  
Condat Lubricants  
Converteam Sas  
Delta Sa  
ESI Group  
Fives DMS  
Fives Stein  
Gohin Messain  
Helmke Sarl  
Invensys Systems France S.A.  
Jean D'Huart  
Laplace Conseil  
Le Gaz Integral  
Leroy Somer  
Nicolas Industrie Sa  
Nkm Noell Special Cranes GmbH  
Redex  
Rotelec  
Savoie Refractaires  
Sert Metal  
Timken

### GERMANY

ABB Automation GmbH  
Ajotec GmbH  
Albert Fezer Maschinenfabrik GmbH  
Alstom Power Conversion  
Amepla GmbH



# COUNTRY LISTINGS

Analytical Standards AB  
Andritz Maerz GmbH  
Arcelormittal Eisenhüttenstadt GmbH  
**Aumund Foerdertechnik GmbH**  
Badische Stahl Engineering GmbH  
BA-Messtechnik GmbH  
Basf Coatings AG  
Beda Oxygentechnik GmbH  
Breitenbach GmbH  
Brück® GmbH Ensheim  
Bruker AXS GmbH  
BSE Badische Stahl-Engineering GmbH  
BWG Bergwerk-Und Walzwerk-Maschinenbau GmbH  
Claudius Peters Projects GmbH  
CMI UVK GmbH  
Control Techniques Germany  
Converteam GmbH  
Cremer Thermoprocessanlagen GmbH  
CS Additive GmbH  
Dango & Dienenthal Maschinenbau GmbH  
Danieli Fröhling  
Dastur Engineering International GmbH  
Demag Cranes And Components  
Didier Säurebau GmbH  
Dienes Werke Fur Maschinenteile GmbH & Co KG  
Dillinger Huette AG  
Dr Brockhaus Messtechnik GmbH & Co KG  
Durag Group  
Egon Evertz GmbH & Co KG  
ELG Eisenlegierungen  
Handelsgesellschaft Mbh  
Elster GmbH  
EMG Automation GmbH  
Endress+Hauser Messtechnik GmbH+Co KG  
Ertcarbon GmbH & Co KG  
Erhardt+Leimer GmbH  
Erichsen GmbH & Co KG  
Ezdk Steel Europe GmbH  
Ferrosaal AG  
Ferrotron Technologies GmbH  
Festo AG & Co KG  
Flsmidth Koch GmbH  
Flsmidth Wuppertal GmbH  
Fontaine Engineering Und Maschinen GmbH  
Fosbel Europe GmbH  
Foseco Steel  
Friedrich Kocks GmbH & Co KG  
Gega Lotz GmbH  
General Insulation Europe Ltd  
Gesco Mbh  
Glama Maschinenbau GmbH  
Graphite Materials GmbH  
GSB Group GmbH  
Haag + Zeissler Maschinenelemente GmbH  
Hauhincos Maschinenfabrik G  
Hausherr, Jochums GmbH  
Heinrich Georg GmbH  
Maschinenfabrik  
Heinrich Wagner Sinto  
Maschinenfabrik GmbH  
Helmeke GmbH  
Helmut Rübsamen GmbH & Co KG  
Henkel Ag & Co Kga

Henschel Industrietechnik  
Handlingsystems GmbH (Andromat)  
Hpl-Neugradenfelder  
Maschinenfabrik GmbH  
Hubtex Maschinenbau GmbH & Co KG  
Hugo Miebach GmbH  
I2 Technologies Ltd  
IKS Klingenberg GmbH  
IMS Messsysteme GmbH  
Intocast AG  
Isra Parsytec GmbH  
Isra Surface Vision GmbH  
Isra Vision AG  
**Jasper Gesellschaft Für Energiewirtschaftund Kybernetik Mbh**  
Josef Frohling GmbH & Co KG  
Joshua Corts Sohn  
Kalenborn Kalprotect GmbH & Co Ltd  
Kamag Transporttechnik GmbH & Co KG  
Kasto Maschinenbau GmbH & Co KG  
Kettenwulf Betriebs GmbH  
Kirov Ardelt GmbH  
Klöckner Stahl Und Metallhandel GmbH  
KME Germany AG & Co KG  
Koch Transporttechnik  
Köppern GmbH & Co KG  
Küettner GmbH & Co. KG  
Kuhlman System Kühltechnik GmbH  
Künemund GmbH  
Künkel-Wagner Prozesstechnologie GmbH  
**Lap GmbH Laser Applikationen**  
Lasco Umformtechnik GmbH  
Lase GmbH Industrielle Lasertechnik  
LDV Systeme GmbH  
Lechler GmbH  
Linde Ag  
LOI Thermprocess GmbH  
LWB Refractories  
M+W Maschinen Und Werkseugbau GmbH  
Man Diesel & Turbo Se  
Metallurgica GmbH & Co.KG  
Mitek Gummifabrik Hans Knott GmbH  
Morgardshammar AB  
MTS Sensor Technology GmbH & Co KG  
Müller Weingarten AG  
Oschatz GmbH  
**Outotec**  
Pfeiffer Vacuum GmbH  
PHD Frankfurt GmbH  
Pieper GmbH  
Plakoma GmbH  
Polysius AG  
Polytec GmbH  
Presstrade Handelsgesellschaft Mbh  
Prüftechnik Alignment Systems GmbH  
**Psi Business Technology For Industries GmbH**  
Raytek GmbH  
**Refratechnik Steel GmbH**  
Rheinbraun Brennstoff GmbH  
S+P Samson GmbH  
Saar-Metallwerke GmbH  
Salzgitter AG

Sap Deutschland AG & Co KG  
Schäfer & Urbach GmbH & Co. KG  
Schalker Eisenhütte Maschinenfabrik GmbH  
Schenck Process GmbH  
Scheuerle Fahrzeugfabrik GmbH  
Schwartz GmbH  
SGL Carbon GmbH  
SGL Carbon GmbH  
Shell Deutschland Schmierstoff GmbH  
Sick AG  
Siemens Ag Industrial Solutions & Services  
Siemens Vai Metals Technologies GmbH  
SMS Mevac GmbH  
SMS Siemag Ag  
Spectro Analytical Instruments GmbH  
Spicer Gelenkwellenbau  
Stein Industrie-Anlagen  
Steinert Elektromagnetbau GmbH  
Sudamin Rohstoff GmbH  
Tenova Loi Itimpianti  
Tenova Takraf  
Thermo Scientific  
Thyssenkrupp Nirosta GmbH  
Titan Umreifungstechnik  
TML Technik GmbH  
TMT - Tapping Measuring Technology GmbH  
Tschan GmbH  
Uhde GmbH  
Ungerer GmbH + Co. KG  
V & M Deutschland GmbH  
Velco GmbH  
Ventilatorenfabrik Oelde GmbH  
Voith Turbo GmbH & Co Kg  
Walzen Irle GmbH  
Weerulin Feuerfeste Produkte GmbH & Co Kg  
Woko Magnet Und Anlagenbau GmbH  
WS Wärmeprozesstechnik GmbH  
Zimmermann & Jansen GmbH  
Zwick GmbH & Co Kg

## HONG KONG

Rawmart.Com.Inc

## HUNGARY

Techlifter Kft

## INDIA

Aakanksha Steel And Alloys  
Air Systems Limited  
Ajoy Chemical Industries  
Ast Accurate Sensors Technologies  
Boch & Fernsh Inc  
Control Techniques India  
Espic Consulting Pvt Ltd  
Gontermann-Peipers (India) Ltd  
Joneja Bright Steels Pvt Ltd  
JSW Ispat Steel Limited  
M C Mowjee & Co Pvt Ltd  
M.N. Dastur & Company (P) Ltd  
Mahindra Steel Service Centre Ltd  
Mecon Ltd  
Mid India Engineering Limited  
Ocl India Ltd  
Raipur Alloys & Steel Ltd

Sadif Steel (India) Pvt Ltd  
Sms Demag Pvt Ltd  
Sparkonix (India) Pvt Ltd  
Steel Authority Of India Ltd  
TRL Krosaki Refractories Limited  
Wavecurrent Automotives Ltd

## IRAN

Donyaye Flez Co

## IRELAND

Aisle-Master Ltd  
Combilift Ltd

## ISRAEL

AST Accurate Sensors Technologies

## ITALY

Acciaieria Arvedi Spa  
Ansaldo Sistemi Industriali S.P.A  
Arinox Spa  
Aso Siderurgica Srl  
Atomat Spa  
Automazioni Industriali Capitanio  
B Pacorini Spa  
Comac Environment  
Continuus Properzi  
Control Techniques Italy  
Costacurto  
Dalmine Spa  
Danieli & C Officine Meccaniche Spa  
Danieli Centro Combustion Spa  
Elettromeccanica Viotto Srl  
Fata Hunter Division Of Fata Spa  
Finarvedi Spa  
Hypertherm Europe Bv  
Ita Inox Spa  
Maina Organi Di Trasmissione Spa  
Marcegaglia Spa  
Metalgoi Siderurgica Spa  
OM Impianti Srl  
Ravagnan Spa  
Revas Technologies Spa  
S.T.S. Services S.R.L. Unipersonale  
Sidermontaggi Spa  
Slingofer Meccanica S.P.A  
SMS Meer Spa  
Stam Spa  
STB Tecnosiderurgica Bresciana Srl  
STS S.R.L.  
T T Tomorrow Technology Spa  
Tamini Trasformatori  
Tecnomagnet Spa  
Tenova Loi Itimpianti  
Tenova Melt Shops  
Tenova Pomini  
Tenova Spa (Hq)  
Tenova Strip Processing  
Tenova Takraf  
Termokimik Corp - Impianti E  
Procedimenti Industria  
Thermocast Spa  
Vereco Srl  
Vezzani Spa

## JAPAN

JP Steel Plantech Co

## KENYA

Polypipes Ltd

**KOREA**

Isra Parsytec Asia Pacific Co., Ltd  
Posco Engineering & Construction Co Ltd

**LUXEMBOURG**

Arcelomittal  
Nizi International S.A.  
Paul Wurth Sa  
Tmt - Tapping Measuring Technology Sarl

**MEXICO**

AMI Ge  
Tenova Hyl

**NORWAY**

Fesil Holding As  
Irtech As  
North Cape Minerals  
Tinfos Jernverk A/S

**POLAND**

Cut N' Form Sp Zo Z  
Polski Koks Sa

**ROMANIA**

Elsid  
Iprolam S.A.  
Metalexportimport Sa  
Uzinexport Sa

**RUSSIA**

AA Imars Group  
Control Techniques Russia  
Electrostral Heavy Engineering Works Jsc  
Ferrostaal Ag Moskau  
OMK United Metallurgical Company  
Quantor Ltd  
Specta Ag  
Sytco Ag  
TMK Pipe Metallurgical Company

**SAUDI ARABIA**

Saudi Iron & Steel Company (Hadeed)

**SCOTLAND**

Foseco Steel UK Ltd

**SINGAPORE**

BHP Billiton Marketing Asia Pte Ltd

**SLOVENIA**

Ravne Knives

**SOUTH AFRICA**

A.J. Charnaud & Co (Pty) Ltd  
Control Techniques Southern Africa Pty Ltd  
Tenova Pyromet

**SPAIN**

Bascotecnia  
Control Techniques Spain  
Grupo Ferroatlantica  
Magnetitas Navarras Sa  
Russula Engineering & Automation  
Siderex (Spanish Association Of Steelworks Exporters)

**SWEDEN**

AB Sandvik Hard Materials  
ABB AB Force Measurement  
ABB Crane Systems  
Agellis Group AB  
Becker Industrial Coatings AB  
Brokk AB  
Ergolift  
Esab AB  
Gem Reklambyra AB  
Gia Industri AB  
Hagglunds Drives AB  
IFA Production Development AB  
Kanthal AB  
Lamiflex AB  
Limab  
Lkab  
Metal Process Control AB  
Morgardshammar AB  
Outokumpu Fabrication Technologies AB  
Precimeter Control AB  
Renholmen Mekaniska Verkstad AB  
Sandvik Materials Technology  
Scanarc Plasma Technologies AB  
Sund Birsta AB  
Tawi AB  
UHT Uvan Hagfors Teknologi

**SWITZERLAND**

Endress+Hauser Instruments International Ag  
Ferrexpo Ag  
FMS Force Measuring System Ag  
Grip Engineering Ag  
Interstop Flow Control Technology  
Mannweiler Consulting  
Mtag Marti-Technologie Ag  
Nucor Trading Sa  
Osterwalder Ag  
Presstrade Ag  
SGS Sa  
SMS Concast Ag  
Spirig Ernest Dipl Ing  
Steel Trading.Com Sa  
Stopinc Ag  
Timcal Ltd  
Truninger Ag  
Vwn Steel Solutions GmbH  
Walter & Bai Ag  
Xstrata Plc  
Zumbach Electronic Ag

**SYRIA**

Steel Max Co

**TAIWAN**

Chia Far Industrial Factory Co  
Yeun Chyang Industrial Co Ltd  
Yieh Corp

**THE NETHERLANDS**

Asko Bv  
Capricorn Bv  
Control Techniques Netherlands  
Daniell Corus  
Fortis  
Goudsmit Magnestic Systems Bv  
Hascor Bv  
Hypertherm Europe Bv  
Kbm Affilips Bv  
Lankhorst Mouldings Bv  
Noxon Stainless Bv  
Panalytical Bv  
Quaker Chemical Bv  
Quintiq  
SKF Group Communications  
Van Leeuwen Pipe And Tube Group

**TURKEY**

BNB  
Control Techniques Turkey  
Engin Paslanmaz  
Ilhanlar Haddecilik  
Isik Engineering Co Ltd  
Sistem Teknik A.S.  
Turbosan Turbomachinery Industry  
Uluslarasi Medya Yayincilik Ve Ticaret Ltd

**UAE**

Mesteel.Com

**UK**

Ab Controls & Technology Ltd  
ABB Automation Ltd  
ABB Ltd  
Able Instruments & Controls Ltd  
ABP Induction Ltd  
Addison Saws Ltd  
Advanced Ndt Limited  
Air Products Europe  
Alex Stewart Assayers Limited  
Amodil Supplies Ltd  
Atkins  
Babcock International Group Plc  
Bartondale Engineering  
BASF Coatings  
Baytek Systems  
Becker Industrial Coatings Ltd  
Benetec Ltd  
Blackburn Starling & Company Limited  
Bodycote Treatments Ltd  
Bosch Rexroth Limited  
Bradbury International UK Ltd  
Bromford Iron & Steel Co Ltd  
Bronx Engineering Ltd  
BSS Industrial  
Camlok Lifting Clamps Ltd  
Caparo Merchant Bar Plc  
Capital Refractories Limited  
Carbolite  
Carbon Trust (The)  
Carrs Products Limited  
Carter Environmental Engineers Ltd  
Cashmores Metals Ltd  
Castmaster Rolls Company Ltd  
Cat Pumps (UK) Ltd  
CJM Asset Management  
Clyde Materials Handling  
CMC UK Ltd  
CMPP  
Coface UK  
Computer Imprintable Label Systems Ltd  
Consarc Engineering Limited  
Control Techniques UK - Telford  
Converteam UK Ltd  
Cooper Roller Bearings Co Ltd  
Corewire Limited  
Corus Construction & Industrial  
Couzens Storage Solutions  
CSC-Scomag Ltd  
C-Tech Innovation  
D A Stuart Ltd  
D S Willetts (Stainless) Ltd  
Danthem Filtration Ltd  
Datapaq Limited  
David Brown  
Davymarkham Limited  
Dba (De Belder Associates Ltd)  
Delavan Spray Technologies  
Demag Cranes & Components Ltd  
Denison Mayes Group Ltd  
DH Computers  
Dialog  
DMA Europa Ltd  
DSF Refractories & Minerals Ltd  
Duscovent Engineering Ltd  
Dustolex Ltd  
Dyson Precision Ceramics  
Dyson TT  
E Braude (London) Ltd  
Edward Symmons  
Edwards Vacuum  
EfcO Ltd  
Elster Metering Ltd  
Emerson Control Techniques  
Emerson Process Management Ltd  
Eriez Magnetics Europe Ltd  
Erwin Sick Ltd  
Euro RSCG - Riley  
Eurostrategy Consultants  
EvadX Ltd  
Falcon Steel Ltd  
Fibretech  
Filtration Services Ltd  
Fischer Instrumentation (GB) Ltd  
Fives Bronx Ltd  
Fives North American Combustion UK Ltd  
Foundrax Engineering Products Ltd  
Gega Lotz Ltd  
Grays Engineering  
Group Rhodes Ltd  
Hadley Group  
Harbison-Walker Refractories Ltd  
Hawco Ltd  
Heraeus Electro-Nite (UK) Ltd  
HG Systems  
Higgins And Hewins Ltd  
Hillcrest Structural Ltd  
Hoben International Ltd  
Honeywell Sensing & Control  
Horiba Scientific  
Huntingdon Fusion Techniques Ltd  
Hydro Coatings  
Hydrotechnik UK  
Hytec Electronics Ltd  
IML Labels And Systems Ltd  
Inductotherm Heating & Welding Ltd  
Injection Alloys  
Innoval Technology Ltd  
Inspectorate International Ltd  
Insteng Process Automation Ltd

# COUNTRY LISTINGS

Invensys Eurotherm Ltd  
Invensys Systems UK Ltd  
John M Henderson & Co Ltd  
Jumo Instrument Company Ltd  
Kaltenbach Ltd  
Kanthal Ltd.  
Kasto Ltd  
Kelman Ltd  
Key Industrial Equipment Ltd  
Kiveton Park Steel Ltd  
Konecranes UK Industrial Crane Division  
Konecranes UK Ltd  
Koso Kent Introl Ltd  
Kromschroder (UK) Ltd  
Land Instruments International  
Lankhorst Recycled Products UK Ltd  
Lanner Group Ltd  
Lechler Ltd  
Lee-Dickens Ltd  
Leighs Paints  
Linston Limited  
Lloyds British Testing Ltd  
Lodge Cottrell Ltd  
London & Scandinavian Analytical Services - Lsm-Analytical Services  
M J Maillis UK Ltd  
M+M Greaves (Machinery)  
Mackey Bowley International Ltd  
MacLellan International  
Magnesita Refractories  
Mayerton Refractories Ltd  
Megatron Ltd  
Meltech Ltd  
Metalloyd Ltd  
Metalock Engineering UK Ltd  
Metalogic  
Metals Consulting International Ltd  
Micromotive  
Mittal Steel Company Ltd  
Mitutoyo (UK) Ltd  
MNI UK Ltd (Formerly Numtec Ltd)  
Mobrey Measurement  
Moduloc Controls Systems Ltd  
Monocon International Refractories Ltd  
Monometer Holdings Ltd  
Morgan-Europe Ltd  
Morris Material Handling Ltd  
Motherwell Bridge Industrial Ltd  
Motoman Robotics UK  
Multiserve Plc  
Multon Process Technology Ltd  
Nabertherm Ltd  
Natisis Commodity Markets Ltd  
NDT Equipment Services Ltd  
NDT Equipment Services Ltd  
Newelco  
Nixon Industrial International Ltd  
Northern Instruments (Leeds)  
Oilgear Towler  
Olympus Industrial  
Our Metals Ltd  
Panalytical Ltd  
PCI Systems Limited  
Pearson Panke Limited  
Pepperl+Fuchs Gb Ltd  
PhoenixTM Ltd  
Polysius Ltd  
Procon Engineering Ltd  
Prosaw Ltd  
Pulsar Process Measurement Ltd  
Quadcom Ltd  
Rainham Steel Co Ltd

Raytek UK Ltd  
RDP-Howden Ltd  
Reed Machinery Ltd  
Renold Hi-Tec Couplings (Formerly Holset)  
Ringspann (UK) Ltd  
Rochester Partnership Ltd  
Rolling Transport Systems Ltd  
Ryder Plc  
Sarclad Ltd  
Scantron  
Schaeffler (UK) Ltd  
Schenck Process Uk Ltd  
Seram UK Ltd  
Sheffield Forgemasters International Ltd  
Sheffield Industrial Saws Ltd  
Sheffield Refractories Ltd  
Shell  
Sick (UK) Ltd  
Siemens Vai Metals Technologies Ltd  
Silvent UK Ltd  
Sirco Controls Ltd  
SKF (UK) Limited  
Skil Environmental Ltd  
Sms Mevac Uk Ltd  
Sonatest Ltd  
Spectro Analytical Uk Ltd  
Spraying Systems Ltd  
Steel Times International  
Stemcor  
STG Holdings  
Strap Ex  
Superbolt Uk Ltd  
Superior Filtration Ltd  
Systech Illinois (Systech Instruments Ltd)  
Tata Steel Projects  
Ten-25 Software Ltd  
Tentec Ltd  
Tetronics Ltd  
Textron (Europe)  
The British Institute Of Non-Destructive Testing  
The L S Starrett Co Ltd  
Thermal Ceramics  
Thermo Fisher Scientific  
Twin City Eurofan Ltd  
Tyco Electronics Uk Ltd  
UK Carbon & Graphite Co Ltd  
UK Cares  
Unico (UK) Ltd  
Unifrax Limited  
USF Spencer Halstead  
Veritec Sonomatic Ltd  
Vesuvius Uk Ltd  
Voith Turbo Ltd  
Weber Shandwick  
Weber Shandwick Technology  
Wedge Group Galvanizing Ltd  
Welding Alloys Group  
Wellman Thermal Technologies Ltd  
West Instruments Ltd  
Zwick Testing Machines Limited

## UKRAINE

DGM Dneprohydromach  
DSS Global Trading  
JSC "Ukrainsky Grafit"  
Uvis Ltd.  
Zaporizhstal Jsc

## UNITED ARAB EMIRATES

Ge Energy (Formerly Dresser Roots Middle East)

## USA

Accelerated Technologies Corporation  
Ads Machinery Corp  
Advanced Machine & Engineering Co  
Air Products And Chemicals Inc  
Airsep Corp - Commercial Products Division  
Ajax Tocco Magnethermic Corporation  
Akzo Nobel  
Alfa Laval  
American Sensors Corp  
Ametek Land Inc  
Anguil Environmental Systems, Inc  
Asko Inc  
Association For Iron & Steel Technology (Aist)  
ATP Co Inc  
ATSI Inc  
Automation Products Inc  
Avon Bearings USA  
Avtron Industrial Automation Inc  
Bachknives, Division Of Hermanite Corp  
Bardons & Oliver Inc  
Berry Metal Co  
Beta Lasermike  
Bloom Engineering Company  
Borax  
Bradley Lifting Corp  
Bricmont Inc  
Bushman Avontec  
Butech Bliss  
Capco Machinery Systems Inc  
Carmeuse Lime & Stone  
Casey Equipment Corp  
Ch2M Hill  
Charles A Hones Inc  
Cognex  
Conco Systems Inc  
Cone Drive Textron  
Consolidated Engineering Company  
Control Techniques Americas  
Daniell Corporation  
Delta Brands Inc (US)  
Dick Corp  
Downs Crane & Hoist Co Inc  
Durable Mecco  
Duraloy Technologies Inc  
Dustex Corporation  
Dynamic Systems Inc  
Edgen Murray  
Electronic Development Labs, Inc  
Elwood Corp  
Eriez Magnetics  
ESM Group Inc  
Eurotherm Ltd  
Everlube Products  
Fives Bronx  
Fives Bronx Inc  
Fives North American Combustion Inc  
Fosbel Inc  
Galaxie Corporation  
Ge Energy Air Filtration  
GFG  
Global Gauge Corporation  
Graco Inc Corporate  
Graftech International

Graftech International  
Guild International  
H2Gen Innovations, Inc  
Harris  
HE Phipps Co Inc  
Herr-Voss Stamco  
Hickman, Williams & Co  
Hoh Systems Inc  
Horsburgh & Scott Co, The  
Hot Briquetted Iron Association (Hbia)  
I2S Llc  
Inductoheat/USA  
Inductotherm Corp  
Infosight Corporation  
International Iron Metallics Association Limited (Iima)  
Ircon, Inc  
Isra Surface Vision Inc  
Jervis B Webb Worldwide Co  
Joslyn Hi-Voltage Corp  
Konrad Corporation  
Kress Corporation  
L & L Special Furnace Co Inc  
Lang Machinery Co Inc  
Lintern Corporation  
Machinery International Corporation  
Magnetic Analysis Corporation  
Midrex Technologies Inc  
Morgan Construction Co  
Nucor Corporation  
Nucsafe  
Palmer Wahl Instrumentation Group  
Pannier Corp  
Paul Wurth Inc  
Phoenix Solutions Co & Plasma Energy Corp  
Pillar Induction  
Praxair Inc  
Process Technology International Inc  
Quaker Chemical Corporation  
Quest Fore  
Rad-Con Inc  
Raymond Corporation  
Red Bud Industries  
RGS Mill Products Corp  
Rio Tinto Minerals  
Sentech Precimeter Inc  
SES Engineering  
SI Vishay Intertechnology  
SPX Precision Components - Fenn Division  
Standex Engraving  
Superbolt Inc  
T Sendzimir Inc  
TDI Group Llc  
Technical Weighing Services Inc  
Tenova Core  
Tenova I2S  
Thermal Ceramics  
TMEIC  
Trueforge Global Machinery Corp  
TSTD Inc  
UEC It  
Unilux Inc  
Verichek Technical Services Inc  
Voith Turbo Inc  
VTI - Valtronics Inc  
Vulcan Engineering Co  
Walker Magnetics Group  
Woodings Industrial Corporation  
Zircar Refractory Composites Inc

## VENEZUELA

Trexa Ca









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*If you are looking for a partner who will go the distance and who will help you realize your goal for the entire life cycle of your plant, then consider Outotec.*

*Outotec develops and provides technology solutions for the sustainable use of Earth's natural resources. As the global leader in minerals and metals processing technology, Outotec has developed several breakthrough technologies over the last several decades. The company also offers innovative solutions for the chemical industry, industrial water treatment and the utilization of alternative energy sources. Outotec shares are listed on the NASDAQ OMX Helsinki*